

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER GMBU 12-36-8-17				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-44305			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2304 FSL 593 FWL		NWSW	36	8.0 S	17.0 E	S		
Top of Uppermost Producing Zone		1886 FSL 688 FWL		NWSW	36	8.0 S	17.0 E	S		
At Total Depth		1886 FSL 688 FWL		NWSW	36	8.0 S	17.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 688			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1320			26. PROPOSED DEPTH MD: 6371 TVD: 6355				
27. ELEVATION - GROUND LEVEL 5028			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
PROD	7.875	5.5	0 - 6371	15.5	J-55 LT&C	8.3	Premium Lite High Strength	302	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier				TITLE Regulatory Tech			PHONE 435 646-4825			
SIGNATURE				DATE 11/10/2014			EMAIL mcrozier@newfield.com			
API NUMBER ASSIGNED 43047549260000				APPROVAL  Permit Manager						

NEWFIELD EXPLORATION  
GMBU 12-36-8-17  
AT SURFACE: NW/SW SECTION 36, T8S, R17E  
UINTAH COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1597'
Green River	1597'
Wasatch	6332'
<b>Proposed TD</b>	6371'(MD) 6355' (TVD)

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1597' – 6332'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

**a. Casing Design: GMBU 12-36-8-17**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,371'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.20

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
 Pore pressure at surface casing shoe = 8.33 ppg  
 Pore pressure at prod casing shoe = 8.33 ppg  
 Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: GMBU 12-36-8-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138 161	30%	15.8	1.17
Prod casing Lead	4,371'	Prem Lite II w/ 10% gel + 3% KCl	302 985	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Exploration will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

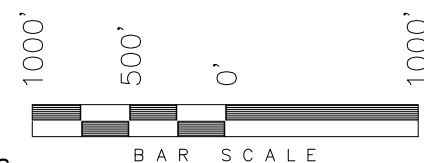
10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2015, and take approximately seven (7) days from spud to rig release.

**T8S, R17E, S.L.B.&M.****NEWFIELD EXPLORATION COMPANY**

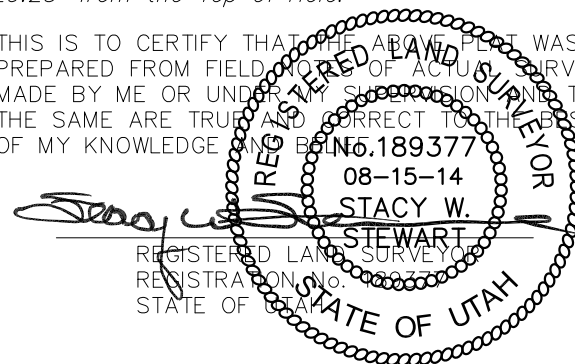
WELL LOCATION, 12-36-8-17,  
LOCATED AS SHOWN IN THE NW 1/4  
SW 1/4 OF SECTION 36, T8S, R17E,  
S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, 12-36-8-17,  
LOCATED AS SHOWN IN THE NW 1/4  
SW 1/4 OF SECTION 36, T8S, R17E,  
S.L.B.&M. UINTAH COUNTY, UTAH.

**NOTES:**

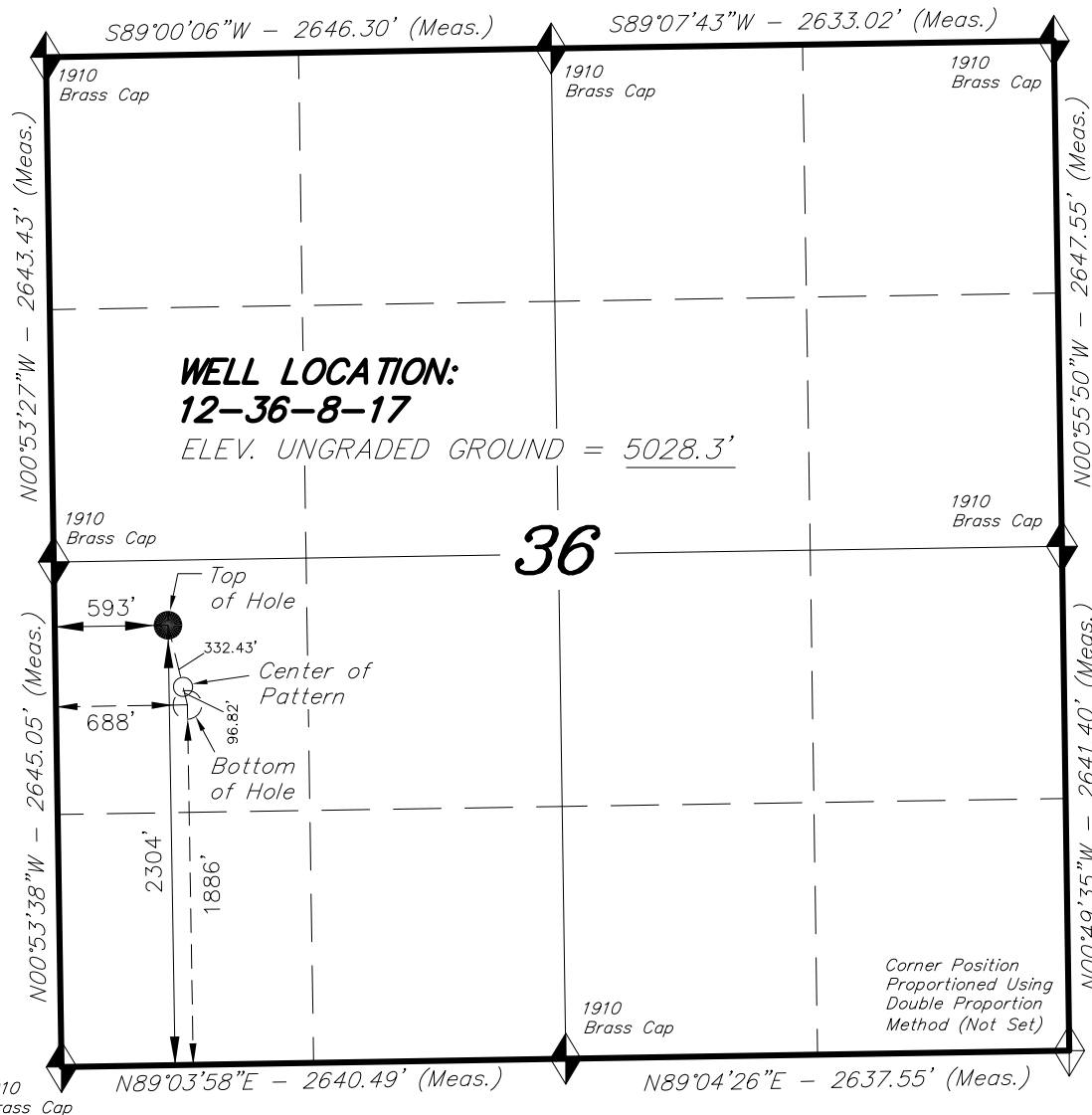
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 1980' FSL & 667' FWL.
4. The Bottom of Hole bears S13°42'57"E 429.25' from the Top of Hole.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 05-19-14	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 08-15-14	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	



◆ = SECTION CORNERS LOCATED

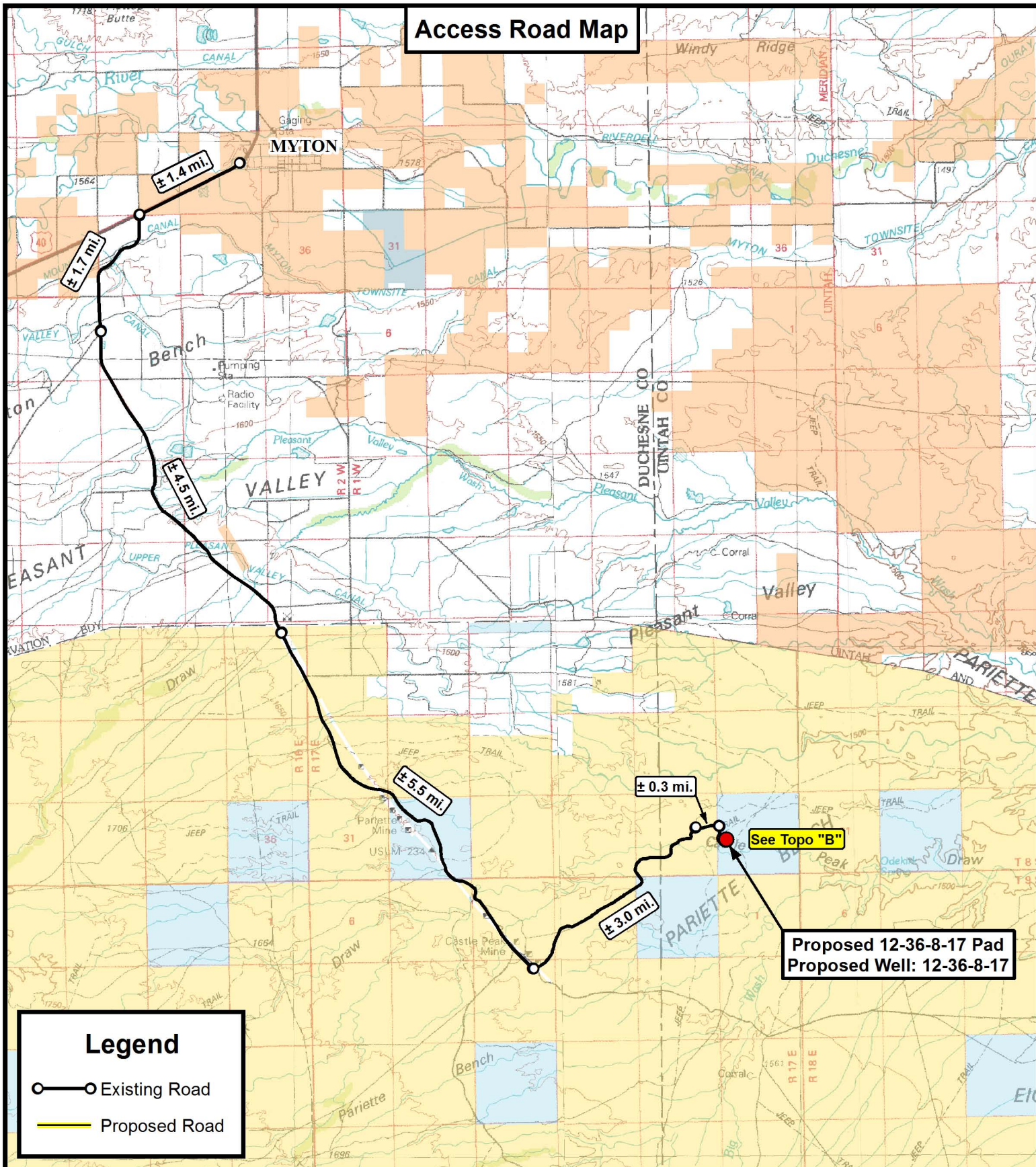
BASIS OF ELEV; Elevations are based on  
an N.G.S. OPUS Correction. LOCATION:  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

<b>NAD 83 (SURFACE LOCATION)</b>	<b>NAD 83 (SURFACE LOCATION)</b>
LATITUDE = 40°04'24.63"	LATITUDE = 40°04'24.63"
LONGITUDE = 109°57'44.06"	LONGITUDE = 109°57'44.06"
<b>NAD 27 (SURFACE LOCATION)</b>	<b>NAD 27 (SURFACE LOCATION)</b>
LATITUDE = 40°04'24.76"	LATITUDE = 40°04'24.76"
LONGITUDE = 109°57'41.53"	LONGITUDE = 109°57'41.53"
<b>NAD 83 (CENTER OF PATTERN)</b>	<b>NAD 83 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°04'21.43"	LATITUDE = 40°04'20.49"
LONGITUDE = 109°57'43.12"	LONGITUDE = 109°57'42.85"
<b>NAD 27 (CENTER OF PATTERN)</b>	<b>NAD 27 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°04'21.56"	LATITUDE = 40°04'20.63"
LONGITUDE = 109°57'40.59"	LONGITUDE = 109°57'40.31"

RECEIVED: November 10, 2014



## Access Road Map



## Legend

- Existing Road
- Proposed Road



**Tri State**  
**Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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F: (435) 781-2518



## NEWFIELD EXPLORATION COMPANY

Proposed 12-36-8-17 Pad  
Proposed Well: 12-36-8-17  
Sec. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.

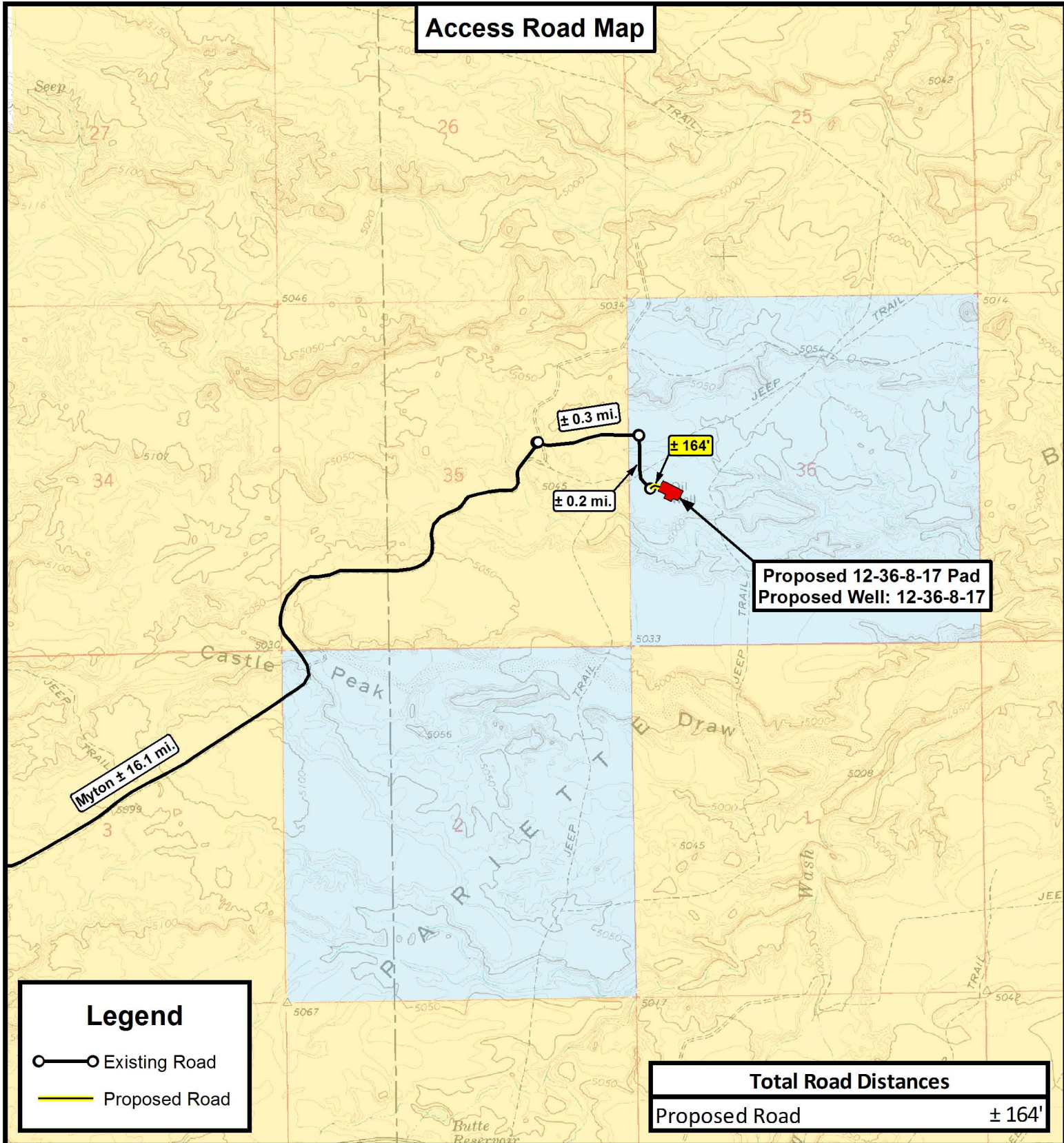
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-22-2014		V1
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET

**A**



**Access Road Map****Legend**

- Existing Road  
 Proposed Road

**Total Road Distances**

Proposed Road	± 164'
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THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



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Proposed 12-36-8-17 Pad  
 Proposed Well: 12-36-8-17  
 Sec. 36, T8S, R17E, S.L.B.&M.  
 Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-22-2014		V1
SCALE:	1" = 2,000'		

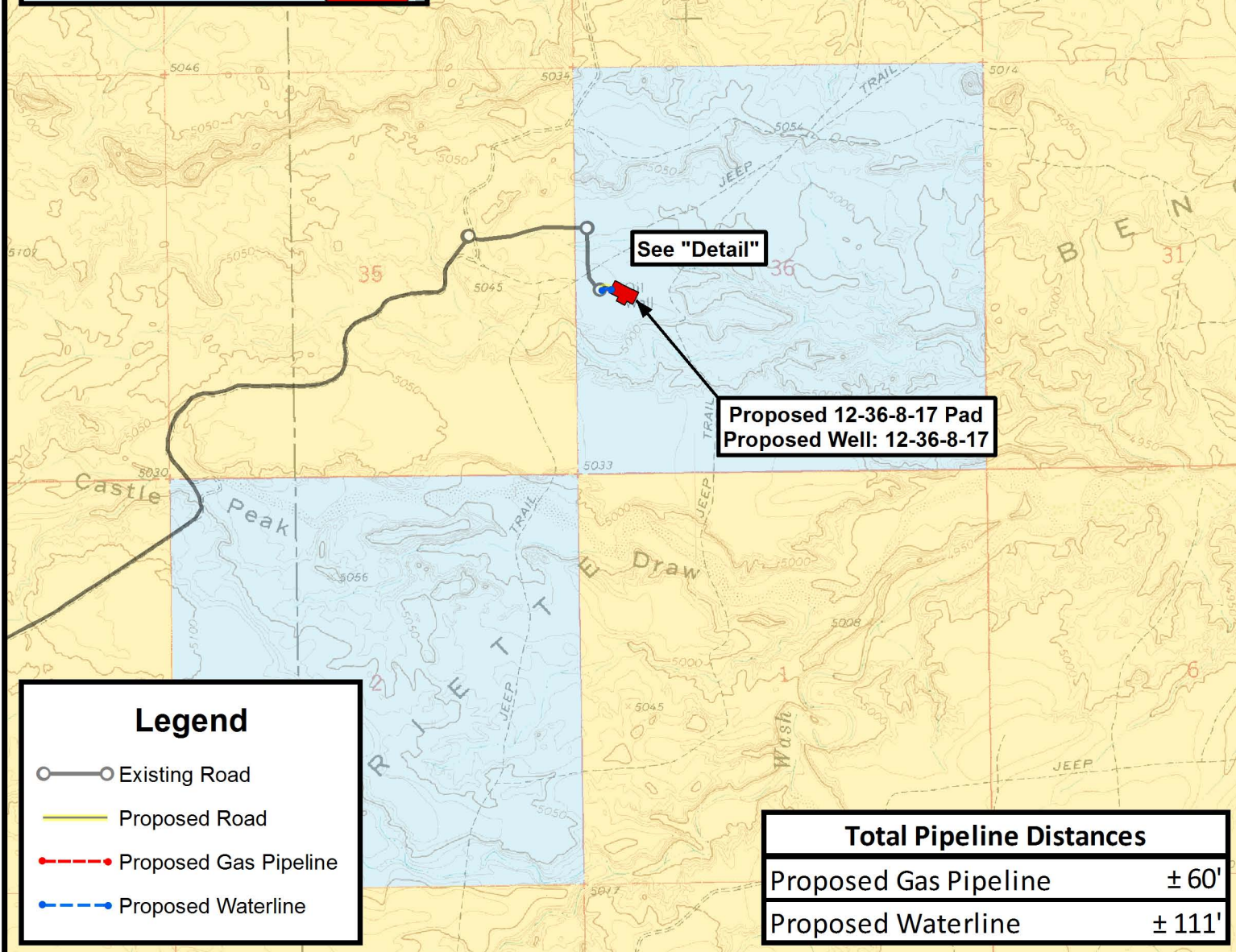
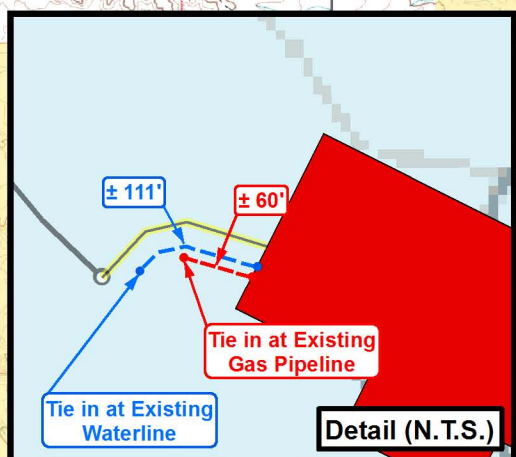
**TOPOGRAPHIC MAP**

SHEET

**B**



# Proposed Pipeline Map



## Legend

- Existing Road
- Proposed Road
- Proposed Gas Pipeline
- Proposed Waterline

## Total Pipeline Distances

Proposed Gas Pipeline	$\pm 60'$
Proposed Waterline	$\pm 111'$

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## NEWFIELD EXPLORATION COMPANY

Proposed 12-36-8-17 Pad  
Proposed Well: 12-36-8-17  
Sec. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-22-2014		V1
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

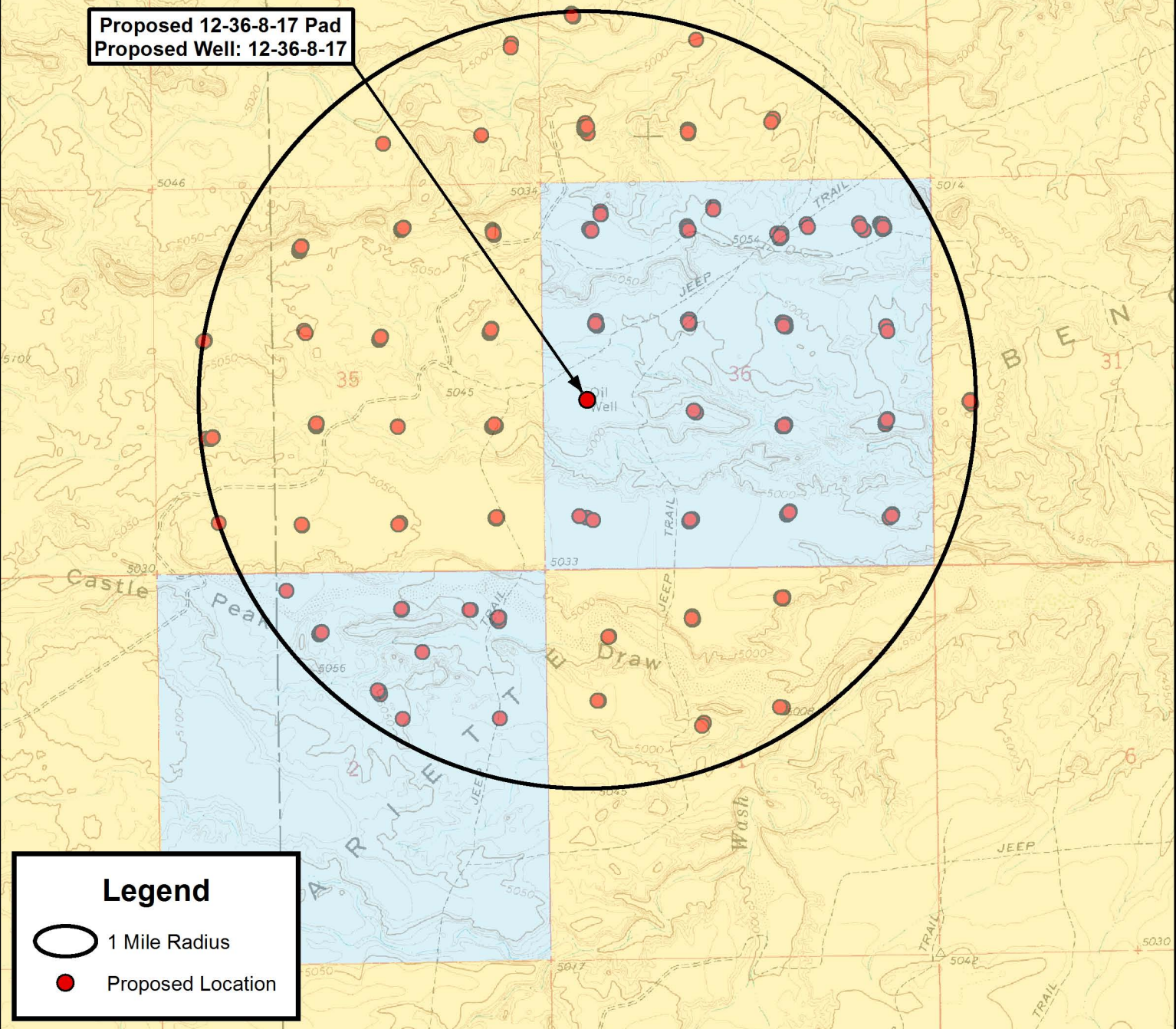
SHEET

**C**



**Exhibit "B" Map**

**Proposed 12-36-8-17 Pad**  
**Proposed Well: 12-36-8-17**



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**NEWFIELD EXPLORATION COMPANY**

Proposed 12-36-8-17 Pad  
 Proposed Well: 12-36-8-17  
 Sec. 36, T8S, R17E, S.L.B.&M.  
 Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-22-2014		V1
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET

**D**

## Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
12-36-8-17	Surface Hole	40° 04' 24.63" N	109° 57' 44.06" W
CASTLE PEAK UNIT 1	Surface Hole	40° 04' 24.38" N	109° 57' 44.61" W
12-36-8-17	Center of Pattern	40° 04' 21.43" N	109° 57' 43.12" W
12-36-8-17	Bottom of Hole	40° 04' 20.49" N	109° 57' 42.85" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
12-36-8-17	Surface Hole	40.073508	109.962239
CASTLE PEAK UNIT 1	Surface Hole	40.073438	109.962391
12-36-8-17	Center of Pattern	40.072618	109.961978
12-36-8-17	Bottom of Hole	40.072359	109.961901
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
12-36-8-17	Surface Hole	4436431.895	588488.717
CASTLE PEAK UNIT 1	Surface Hole	4436423.936	588475.875
12-36-8-17	Center of Pattern	4436333.384	588512.183
12-36-8-17	Bottom of Hole	4436304.692	588519.018
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
12-36-8-17	Surface Hole	40° 04' 24.76" N	109° 57' 41.53" W
CASTLE PEAK UNIT 1	Surface Hole	40° 04' 24.51" N	109° 57' 42.08" W
12-36-8-17	Center of Pattern	40° 04' 21.56" N	109° 57' 40.59" W
12-36-8-17	Bottom of Hole	40° 04' 20.63" N	109° 57' 40.31" W
Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
12-36-8-17	Surface Hole	40.073546	109.961536
CASTLE PEAK UNIT 1	Surface Hole	40.073475	109.961688
12-36-8-17	Center of Pattern	40.072656	109.961274
12-36-8-17	Bottom of Hole	40.072397	109.961198
Well Number	Feature Type	Northing (NAD 27) (UTM Meters)	Longitude (NAD 27) (UTM Meters)
12-36-8-17	Surface Hole	4436226.577	588550.980
CASTLE PEAK UNIT 1	Surface Hole	4436218.618	588538.139
12-36-8-17	Center of Pattern	4436128.067	588574.447
12-36-8-17	Bottom of Hole	4436099.374	588581.282



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Proposed 12-36-8-17 Pad  
Proposed Well: 12-36-8-17  
Sec. 36, T8S, R17E, S.L.B.&M.  
Uintah County, UT.

DRAWN BY: A.P.C.  
DATE: 08-22-2014  
VERSION: V1

REVISED:

**COORDINATE REPORT**

SHEET

1

RECEIVED: November 10, 2014





# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 36 T8S, R17E  
12-36-8-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**11 September, 2014**





# Payzone Directional Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 12-36-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	12-36-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

Site		SECTION 36 T8S, R17E				
Site Position:		Northing:	7,201,754.67 usft	Latitude:	40° 4' 49.860 N	
	From:	Lat/Long	Easting:	2,070,893.92 usft	Longitude:	109° 57' 41.220 W
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.99

Well	12-36-8-17, SHL: 40° 4' 24.630 -109° 57' 44.060					
Well Position	+N/-S	-2,552.8 usft	Northing:	7,199,198.41 usft	Latitude:	40° 4' 24.630 N
	+E/-W	-220.8 usft	Easting:	2,070,717.10 usft	Longitude:	109° 57' 44.060 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	5,038.0 usft	Ground Level:	5,027.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/11/2014	10.86	65.76	51,983

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	166.28

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
891.7	4.38	166.28	891.5	-10.8	2.6	1.50	1.50	0.00	166.28	
5,102.6	4.38	166.28	5,090.0	-322.9	78.8	0.00	0.00	0.00	0.00	12-36-8-17 TGT
6,371.3	4.38	166.28	6,355.0	-417.0	101.8	0.00	0.00	0.00	0.00	



# Payzone Directional Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 12-36-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	12-36-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	166.28	700.0	-1.3	0.3	1.3	1.50	1.50	0.00
800.0	3.00	166.28	799.9	-5.1	1.2	5.2	1.50	1.50	0.00
891.7	4.38	166.28	891.5	-10.8	2.6	11.1	1.50	1.50	0.00
900.0	4.38	166.28	899.7	-11.4	2.8	11.8	0.00	0.00	0.00
1,000.0	4.38	166.28	999.4	-18.8	4.6	19.4	0.00	0.00	0.00
1,100.0	4.38	166.28	1,099.1	-26.3	6.4	27.0	0.00	0.00	0.00
1,200.0	4.38	166.28	1,198.8	-33.7	8.2	34.7	0.00	0.00	0.00
1,300.0	4.38	166.28	1,298.5	-41.1	10.0	42.3	0.00	0.00	0.00
1,400.0	4.38	166.28	1,398.2	-48.5	11.8	49.9	0.00	0.00	0.00
1,500.0	4.38	166.28	1,497.9	-55.9	13.6	57.5	0.00	0.00	0.00
1,600.0	4.38	166.28	1,597.7	-63.3	15.5	65.2	0.00	0.00	0.00
1,700.0	4.38	166.28	1,697.4	-70.7	17.3	72.8	0.00	0.00	0.00
1,800.0	4.38	166.28	1,797.1	-78.1	19.1	80.4	0.00	0.00	0.00
1,900.0	4.38	166.28	1,896.8	-85.6	20.9	88.1	0.00	0.00	0.00
2,000.0	4.38	166.28	1,996.5	-93.0	22.7	95.7	0.00	0.00	0.00
2,100.0	4.38	166.28	2,096.2	-100.4	24.5	103.3	0.00	0.00	0.00
2,200.0	4.38	166.28	2,195.9	-107.8	26.3	111.0	0.00	0.00	0.00
2,300.0	4.38	166.28	2,295.6	-115.2	28.1	118.6	0.00	0.00	0.00
2,400.0	4.38	166.28	2,395.3	-122.6	29.9	126.2	0.00	0.00	0.00
2,500.0	4.38	166.28	2,495.0	-130.0	31.7	133.8	0.00	0.00	0.00
2,600.0	4.38	166.28	2,594.7	-137.4	33.6	141.5	0.00	0.00	0.00
2,700.0	4.38	166.28	2,694.4	-144.9	35.4	149.1	0.00	0.00	0.00
2,800.0	4.38	166.28	2,794.2	-152.3	37.2	156.7	0.00	0.00	0.00
2,900.0	4.38	166.28	2,893.9	-159.7	39.0	164.4	0.00	0.00	0.00
3,000.0	4.38	166.28	2,993.6	-167.1	40.8	172.0	0.00	0.00	0.00
3,100.0	4.38	166.28	3,093.3	-174.5	42.6	179.6	0.00	0.00	0.00
3,200.0	4.38	166.28	3,193.0	-181.9	44.4	187.3	0.00	0.00	0.00
3,300.0	4.38	166.28	3,292.7	-189.3	46.2	194.9	0.00	0.00	0.00
3,400.0	4.38	166.28	3,392.4	-196.7	48.0	202.5	0.00	0.00	0.00
3,500.0	4.38	166.28	3,492.1	-204.2	49.8	210.2	0.00	0.00	0.00
3,600.0	4.38	166.28	3,591.8	-211.6	51.7	217.8	0.00	0.00	0.00
3,700.0	4.38	166.28	3,691.5	-219.0	53.5	225.4	0.00	0.00	0.00
3,800.0	4.38	166.28	3,791.2	-226.4	55.3	233.0	0.00	0.00	0.00
3,900.0	4.38	166.28	3,890.9	-233.8	57.1	240.7	0.00	0.00	0.00
4,000.0	4.38	166.28	3,990.7	-241.2	58.9	248.3	0.00	0.00	0.00
4,100.0	4.38	166.28	4,090.4	-248.6	60.7	255.9	0.00	0.00	0.00
4,200.0	4.38	166.28	4,190.1	-256.0	62.5	263.6	0.00	0.00	0.00
4,300.0	4.38	166.28	4,289.8	-263.5	64.3	271.2	0.00	0.00	0.00
4,400.0	4.38	166.28	4,389.5	-270.9	66.1	278.8	0.00	0.00	0.00
4,500.0	4.38	166.28	4,489.2	-278.3	67.9	286.5	0.00	0.00	0.00
4,600.0	4.38	166.28	4,588.9	-285.7	69.7	294.1	0.00	0.00	0.00
4,700.0	4.38	166.28	4,688.6	-293.1	71.6	301.7	0.00	0.00	0.00
4,800.0	4.38	166.28	4,788.3	-300.5	73.4	309.3	0.00	0.00	0.00
4,900.0	4.38	166.28	4,888.0	-307.9	75.2	317.0	0.00	0.00	0.00
5,000.0	4.38	166.28	4,987.7	-315.3	77.0	324.6	0.00	0.00	0.00
5,102.6	4.38	166.28	5,090.0	-322.9	78.8	332.4	0.00	0.00	0.00
5,200.0	4.38	166.28	5,187.2	-330.2	80.6	339.9	0.00	0.00	0.00





# Payzone Directional Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 12-36-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	12-36-8-17 @ 5038.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	12-36-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

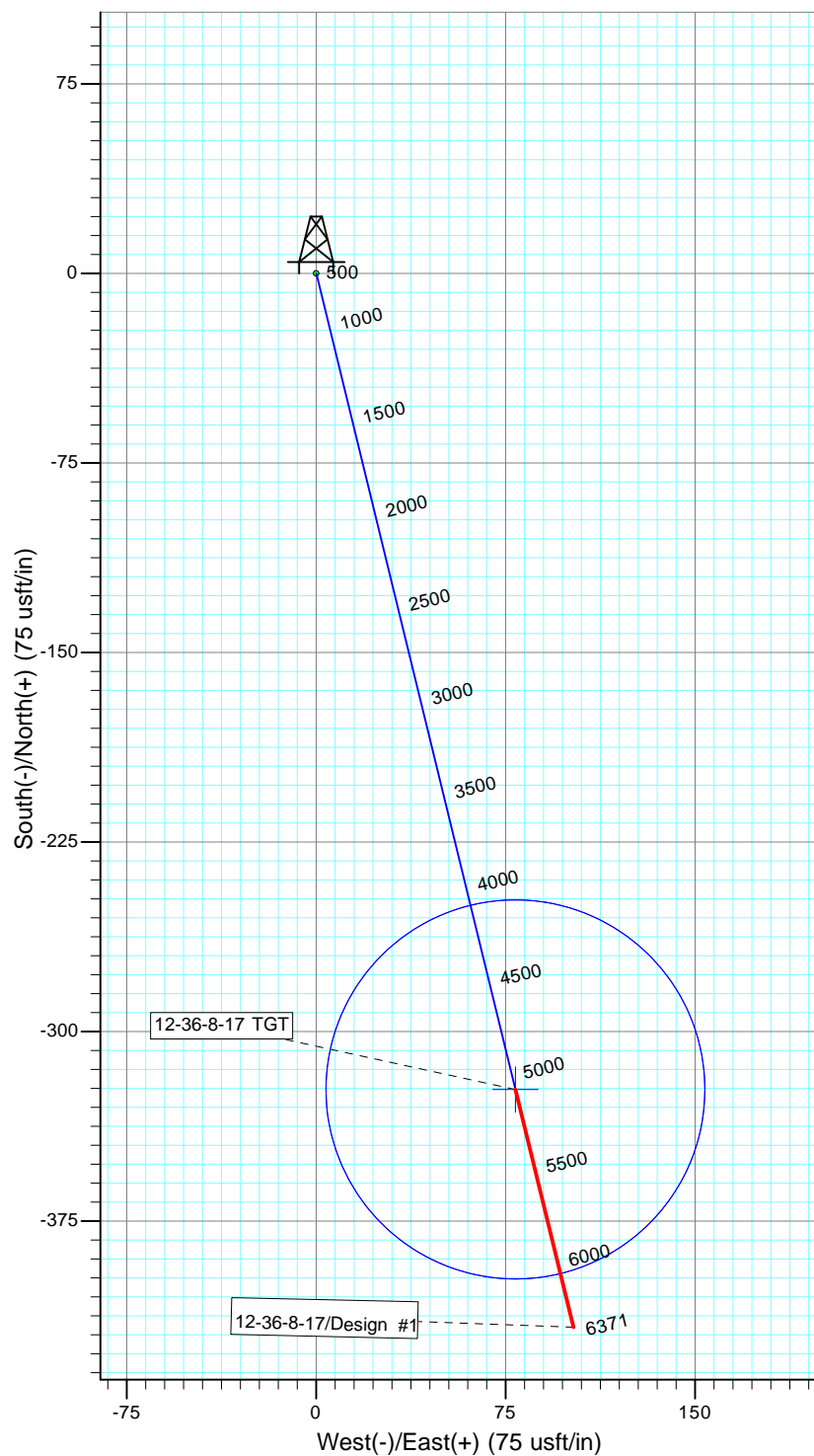
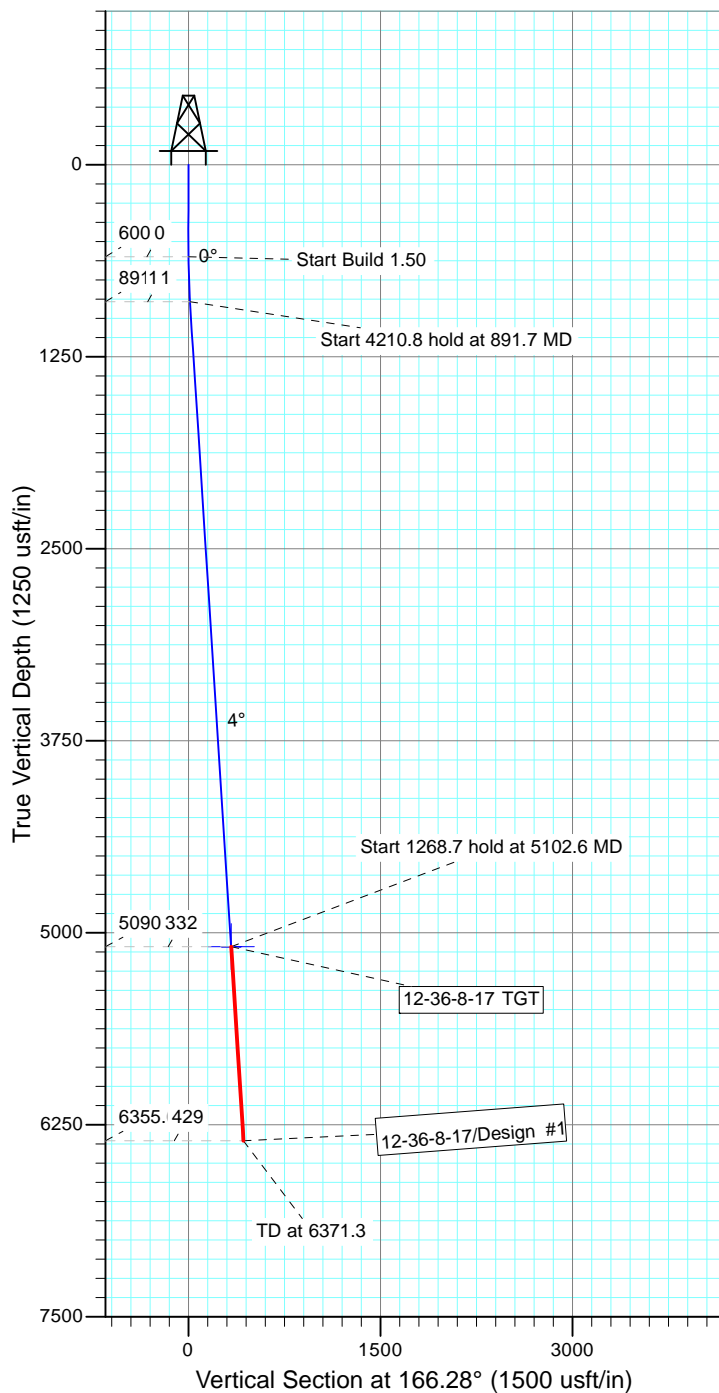
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	4.38	166.28	5,286.9	-337.6	82.4	347.5	0.00	0.00	0.00
5,400.0	4.38	166.28	5,386.6	-345.0	84.2	355.1	0.00	0.00	0.00
5,500.0	4.38	166.28	5,486.3	-352.4	86.0	362.8	0.00	0.00	0.00
5,600.0	4.38	166.28	5,586.0	-359.8	87.8	370.4	0.00	0.00	0.00
5,700.0	4.38	166.28	5,685.7	-367.2	89.7	378.0	0.00	0.00	0.00
5,800.0	4.38	166.28	5,785.4	-374.6	91.5	385.6	0.00	0.00	0.00
5,900.0	4.38	166.28	5,885.1	-382.1	93.3	393.3	0.00	0.00	0.00
6,000.0	4.38	166.28	5,984.8	-389.5	95.1	400.9	0.00	0.00	0.00
6,100.0	4.38	166.28	6,084.5	-396.9	96.9	408.5	0.00	0.00	0.00
6,200.0	4.38	166.28	6,184.2	-404.3	98.7	416.2	0.00	0.00	0.00
6,300.0	4.38	166.28	6,283.9	-411.7	100.5	423.8	0.00	0.00	0.00
6,371.3	4.38	166.28	6,355.0	-417.0	101.8	429.2	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
12-36-8-17 TGT	0.00	0.00	5,090.0	-322.9	78.8	7,198,876.87	2,070,801.48	40° 4' 21.438 N	109° 57' 43.046 W
- plan hits target center									
- Circle (radius 75.0)									



Project: USGS Myton SW (UT)  
 Site: SECTION 36 T8S, R17E  
 Well: 12-36-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1

**T M**  
 Azimuths to True North  
 Magnetic North: 10.86°  
 Magnetic Field  
 Strength: 51983.4snT  
 Dip Angle: 65.76°  
 Date: 9/11/2014  
 Model: IGRF2010



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
12-36-8-17 TG5090.0	-322.9	78.8	Circle (Radius: 75.0)	

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	891.7	4.38	166.28	891.5	-10.8	2.6	1.50	166.28	11.1	
4	5102.6	4.38	166.28	5090.0	-322.9	78.8	0.00	0.00	332.4	12-36-8-17 TGT
5	6371.3	4.38	166.28	6355.0	-417.0	101.8	0.00	0.00	429.2	



**NEWFIELD EXPLORATION  
GMBU 12-36-8-17  
AT SURFACE: NW/SW SECTION 36, T8S R17E  
UINTAH COUNTY, UTAH**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

This is a new pad with one proposed vertical well.

**1. EXISTING ROADS**

To reach Newfield Exploration well location site GMBU 12-36-8-17 located in the NW 1/4 SW 1/4 Section 36, T8S, R17E, Uintah County, Utah:

- a) Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 1.7 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly - 10.0 miles  $\pm$  to it's junction with an existing road to the northeast; proceed in a northeasterly direction - 3.3 miles  $\pm$  to it's junction with an existing road to the south; proceed in a southerly direction - 0.2 miles  $\pm$  to it's junction with the beginning of the proposed access road to the east; proceed along the proposed access road - 164'  $\pm$  to the proposed 12-36-8-17 well location.
- b) The proposed location is approximately 16.6 miles southeast of Roosevelt, Utah
- c) Existing native surface roads in the area range from clays to a sandy-clay shale material.
- d) Access roads will be maintained at the standards required by UDOT, Duchesne County or other controlling agencies. This maintenance will consist of some minor grader work for road surfacing and snow removal. Any necessary fill material for repair will be purchased and hauled from private sources.

**2. PLANNED ACCESS ROAD**

- a) Approximately 164 feet of access road is planned. The planned access consists of entirely new disturbance across entirely SITLA surface. See attached Topographic Map "B".
- b) The planned access road will consist of a 20-foot permanent running surface crowned and ditched in order to handle any run-off from any precipitation events. The maximum grade will be 10% or less.
- c) There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.
- d) There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.
- e) All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

- a) Refer to Topographic Map "D".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

- a) There are no existing facilities that will be utilized.



- b) It is anticipated that this well will be a producing oil well with some associated natural gas.
- c) Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.
- d) Tank batteries will be built to Federal Gold Book specifications.
- e) All permanent above-ground structures would be painted a flat, non-reflective covert green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation (weather permitting). Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- f) Newfield Exploration requests 60' of surface gas line be granted. Newfield Exploration requests 111' of buried water line be granted. See attached Topographic Map "C".
- g) Where parallel corridors exist the disturbed area will be 60 feet wide to allow for construction of the proposed access road and pipeline corridor. The pipeline corridor will consist of a 12-inch or smaller natural gas pipeline, a 6-inch or smaller fuel gas line and an 10-inch or smaller produced water pipeline.
- h) The pipelines will tie in to the existing Newfield pipeline infrastructure. The proposed pipelines will be buried 4-feet deep or greater in a trench constructed with a trencher, trackhoe or backhoe for the length of the proposal. The construction phase of the planned access road, proposed pipelines will last approximately (10) days.
- i) The centerline of the proposed route will be staked prior to installation. Pipelines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated.
- j) Lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country, travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet to adequately support the equipment .

5. **LOCATION AND TYPE OF WATER SUPPLY**

- a) Newfield Exploration will transport water by truck from nearest water source. The available water sources are as follows:
  - Johnson Water District (Water Right : 43-7478)
  - Maurice Harvey Pond (Water Right: 47-1358)
  - Neil Moon Pond (Water Right: 43-11787)
  - Newfield Collector Well (Water Right: 47-1817 - A30414DVA, contracted with the Duchesne County Conservancy District).

6. **SOURCE OF CONSTRUCTION MATERIALS**

- a) Construction material for this access road will be borrowed material accumulated during construction of the access road. If any additional borrow or gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

- a) A small pit (80 feet x 120 feet x 8 feet deep, or less) will be constructed inboard of the pad area. The pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM.
- b) The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times.
- c) A portable toilet will be provided for human waste.
- d) A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.
- e) After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.
- f) All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Newfield Exploration guarantees that during the drilling and completion of the referenced well, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the referenced well, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

8. **ANCILLARY FACILITIES**

- a) There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

- a) See attached Location Layout Sheet.

**Fencing Requirements**

- a) All pits will be fenced or have panels installed consistent with the following minimum standards:
  - 1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
  - 2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times
  - 3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- b) The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

**10. PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location
  - 1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.
  - 2. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting; the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.
- b) Dry Hole Abandoned Location
  - 1. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

**11. SURFACE OWNERSHIP**

- a) State of Utah.

**12. OTHER ADDITIONAL INFORMATION**

- a) Montgomery Archeological Consultants, Inc. has conducted a Class III archeological survey. State of Utah Antiquities Project Permit # U-14-MQ-1048s, 10/31/14. The report has been submitted under separate cover by Montgomery Archeological Consultants, Inc. Newfield would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- b) SWCA Environmental Consultants has conducted a paleontological survey. The report has been submitted under separate cover by SWCA. Report # UT14-14273-181, October 2014.
- c) Newfield Exploration will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On federal administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.



- d) A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

**13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Corie Miller  
Address: Newfield Exploration  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

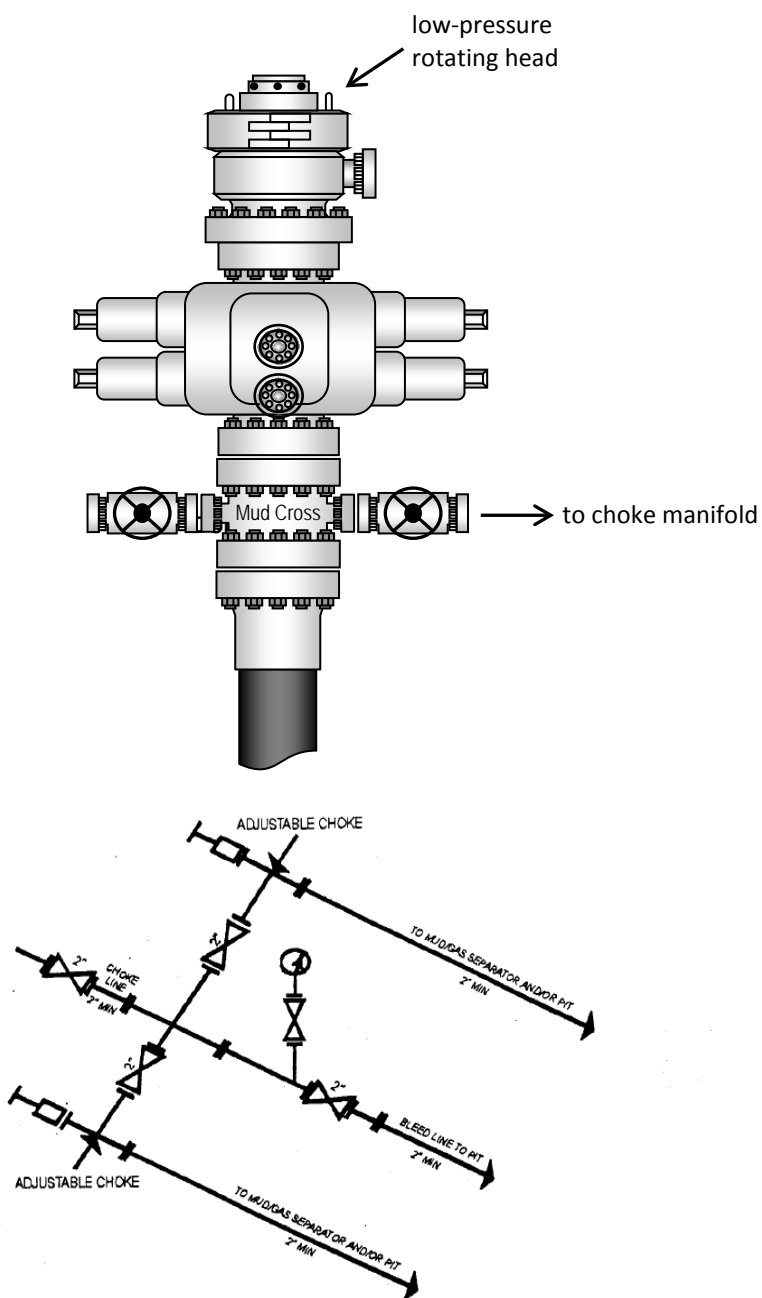
Please be advised that NEWFIELD EXPLORATION is considered to be the operator of well #12-36-8-17, Section 36, Township 8S, Range 17E: Lease ML-44305, Uintah County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Utah State Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Exploration and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

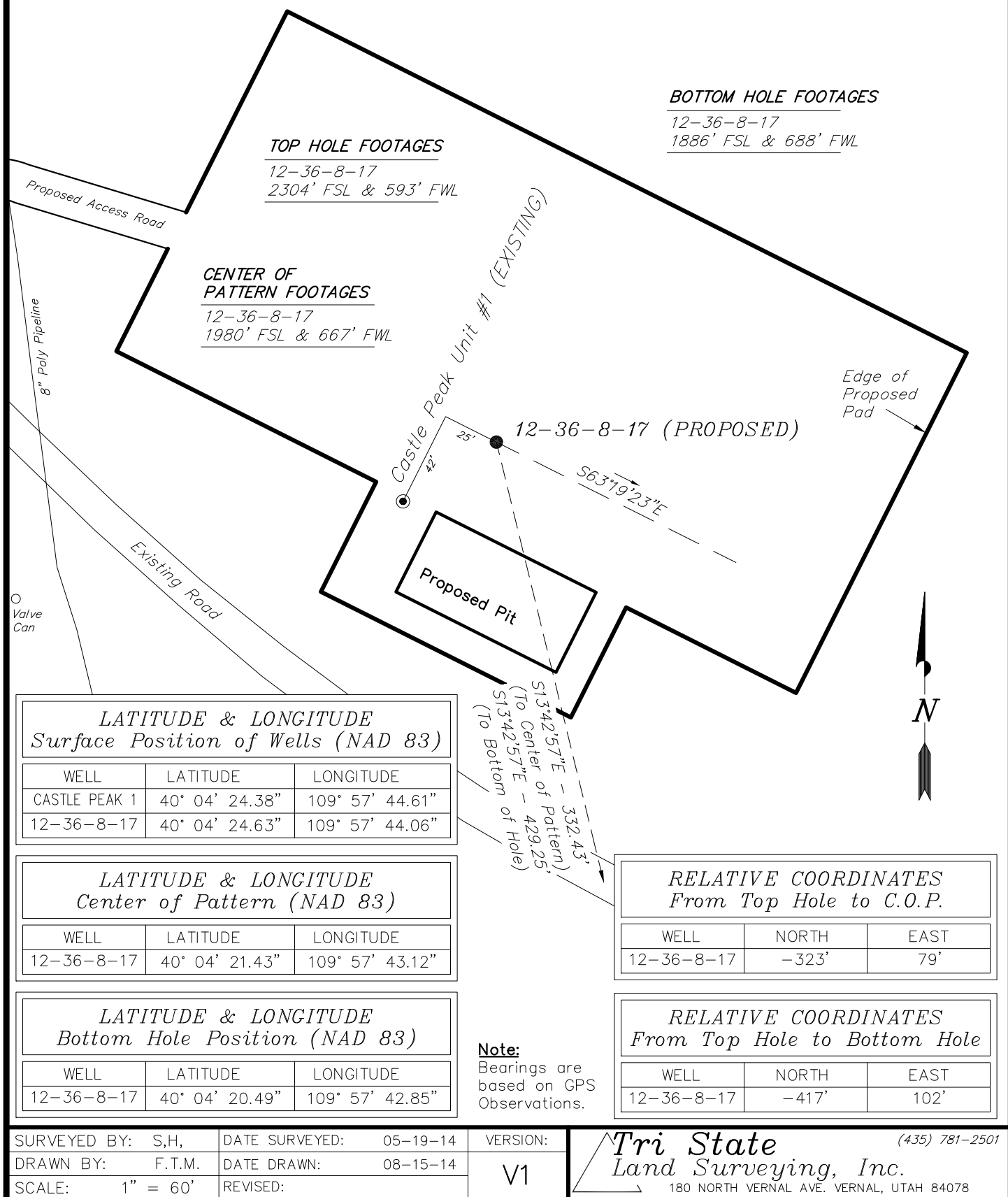
11/10/14  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Specialist  
Newfield Exploration

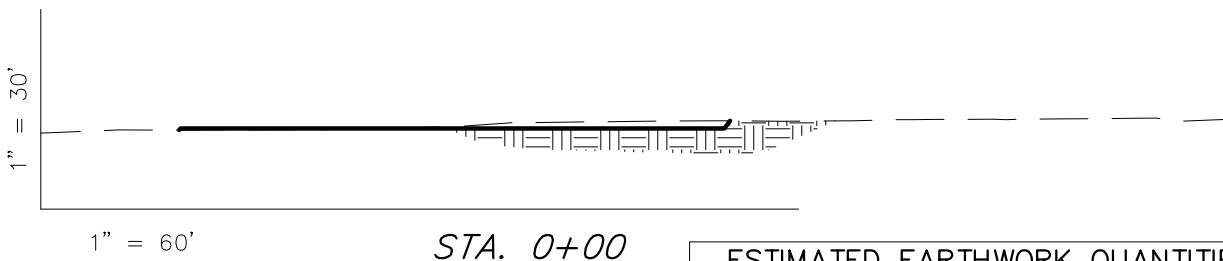
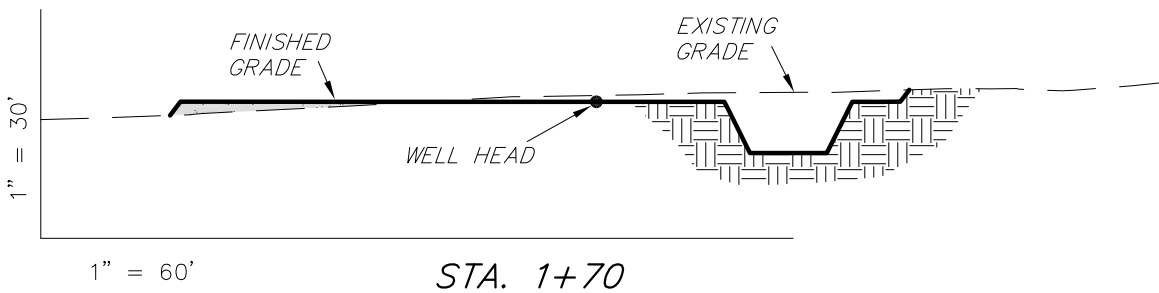
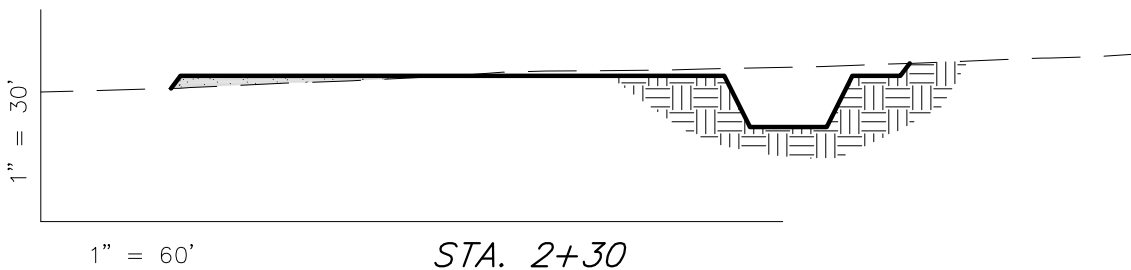
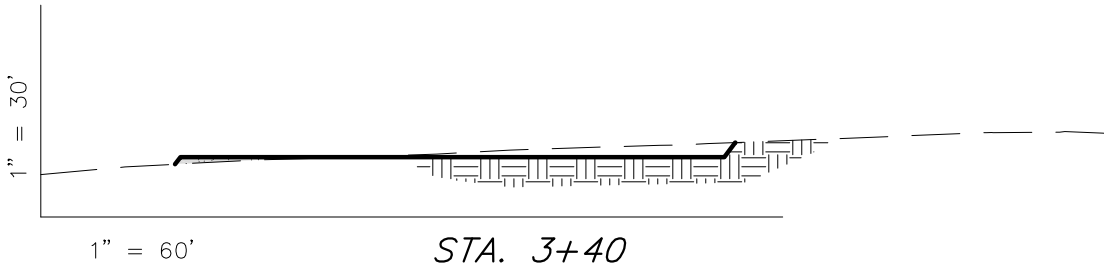
## Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

**NEWFIELD EXPLORATION COMPANY****WELL PAD INTERFERENCE PLAT****PROPOSED 12-36-8-17 PAD****PROPOSED WELL: 12-36-8-17***Pad Location: NWSW Section 36, T8S, R17E, S.L.B.&M.***RECEIVED:** November 10, 2014



**NEWFIELD EXPLORATION COMPANY****CROSS SECTIONS****PROPOSED 12-36-8-17 PAD****PROPOSED WELL: 12-36-8-17***Pad Location: NWSW Section 36, T8S, R17E, S.L.B.&M.*

NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

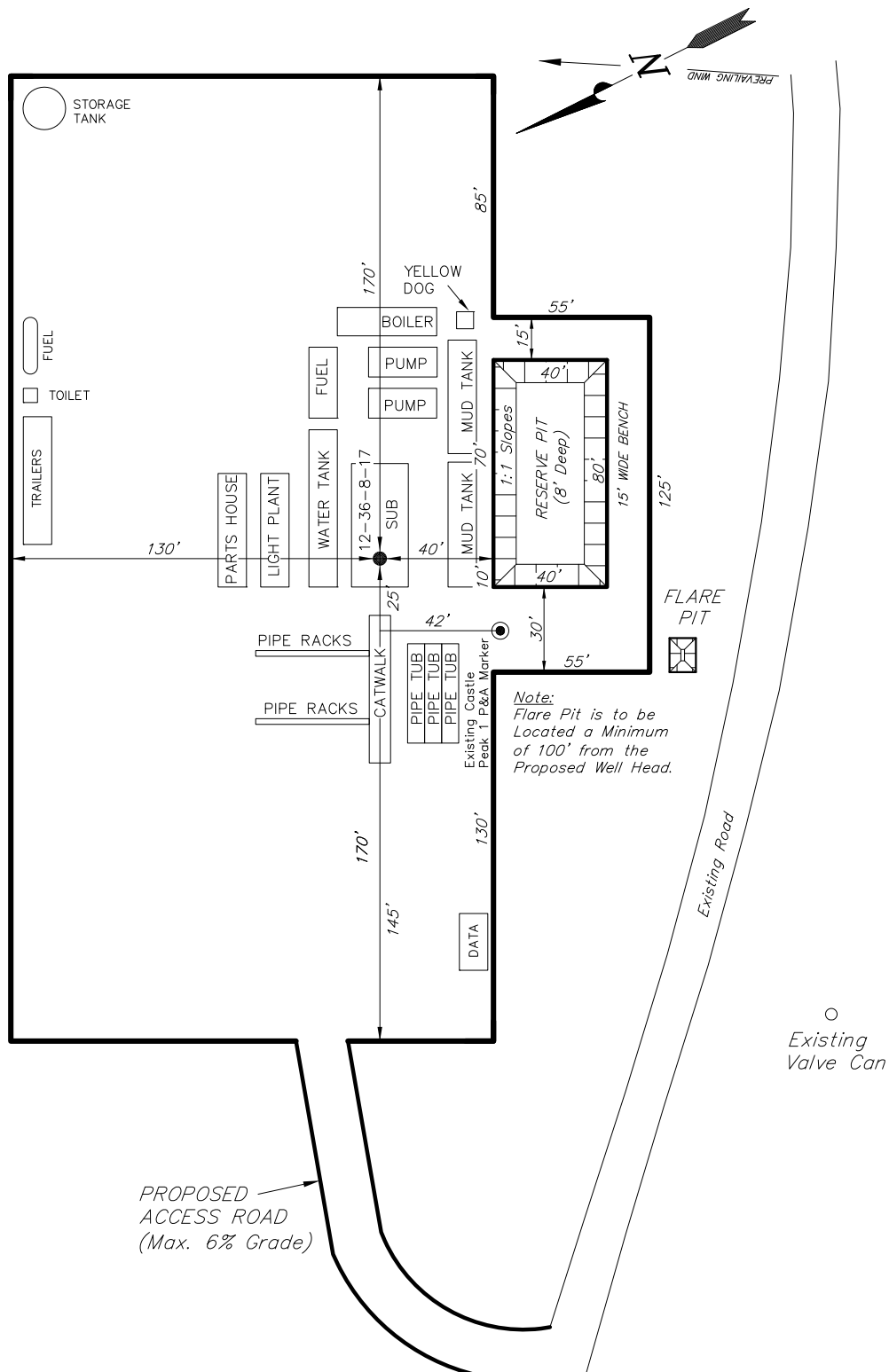
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,080	1,080	Topsoil is not included in Pad Cut Volume	0
PIT	690	0		690
TOTALS	1,770	1,080	1,310	690

SURVEYED BY: S.H.	DATE SURVEYED: 05-19-14	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-15-14	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED:** November 10, 2014

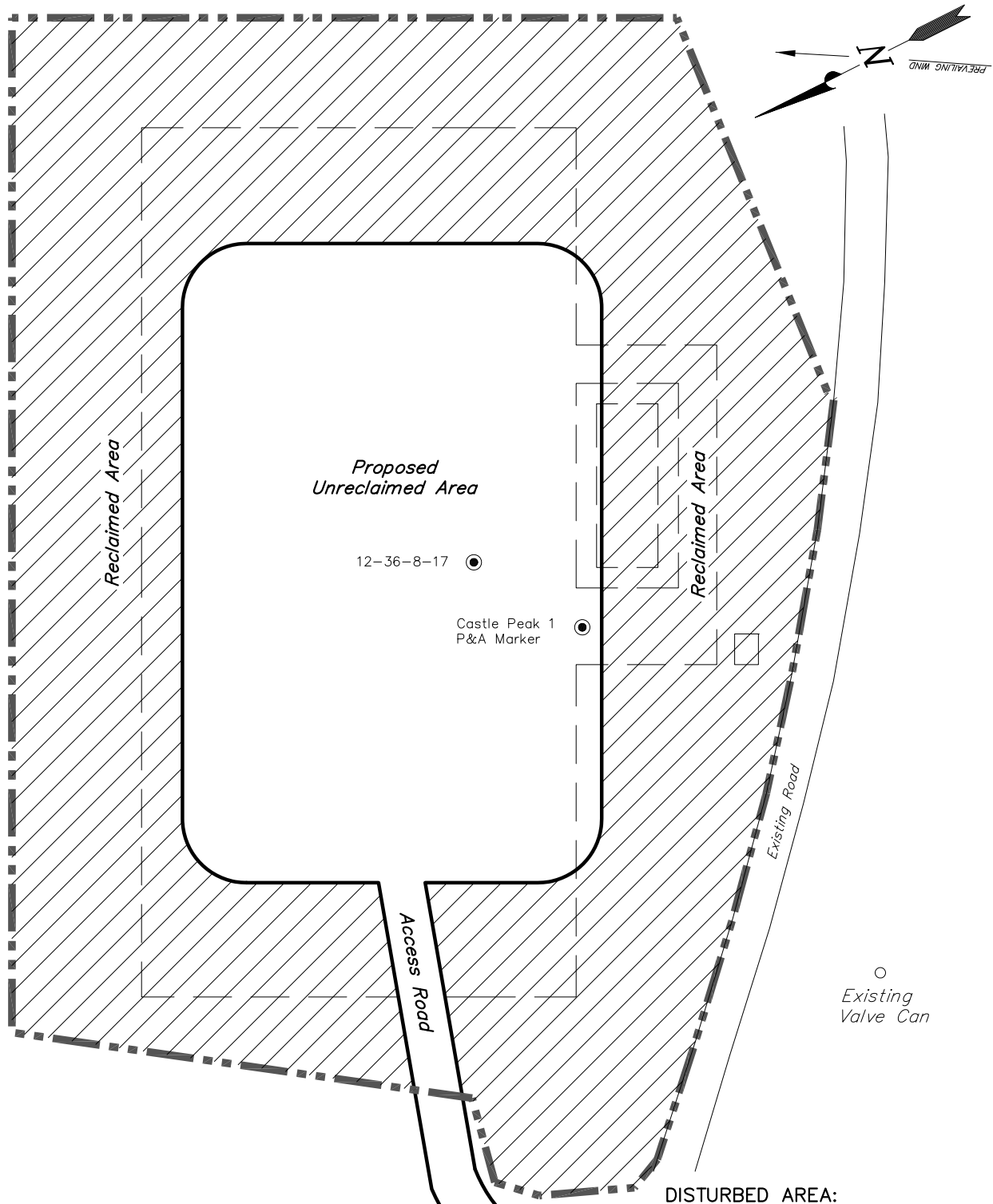


**NEWFIELD EXPLORATION COMPANY****TYPICAL RIG LAYOUT****PROPOSED 12-36-8-17 PAD****PROPOSED WELL: 12-36-8-17***Pad Location: NWSW Section 36, T8S, R17E, S.L.B.&M.*

SURVEYED BY: S.H.	DATE SURVEYED: 05-19-14	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-15-14	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED: November 10, 2014**

**NEWFIELD EXPLORATION COMPANY****RECLAMATION LAYOUT****PROPOSED 12-36-8-17 PAD****PROPOSED WELL: 12-36-8-17***Pad Location: NWSW Section 36, T8S, R17E, S.L.B.&M.***Notes:**

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

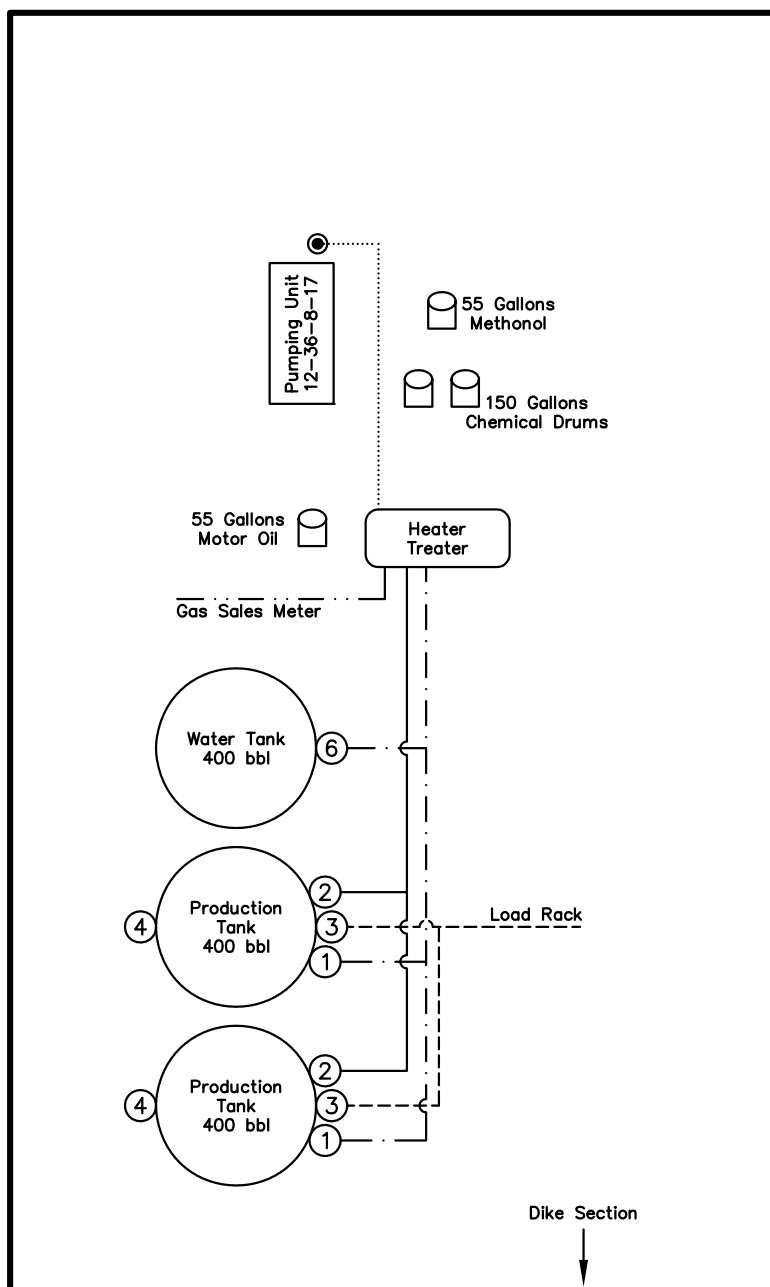
**DISTURBED AREA:**

TOTAL DISTURBED AREA =  $\pm 2.86$  ACRES  
 TOTAL RECLAIMED AREA =  $\pm 1.90$  ACRES  
 UNRECLAIMED AREA =  $\pm 0.96$  ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 05-19-14	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-15-14	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED:** November 10, 2014

***NEWFIELD EXPLORATION COMPANY******PROPOSED SITE FACILITY DIAGRAM******12-36-8-17 PAD******12-36-8-17 ML-44305****Pad Location: NSW Section 36, T8S, R17E, S.L.B.&M.  
Uintah County, Utah****Legend***

Emulsion Line .....  
 Load Rack - - - - -  
 Water Line - . - . -  
 Gas Sales - . . - . -  
 Oil Line - - - - -

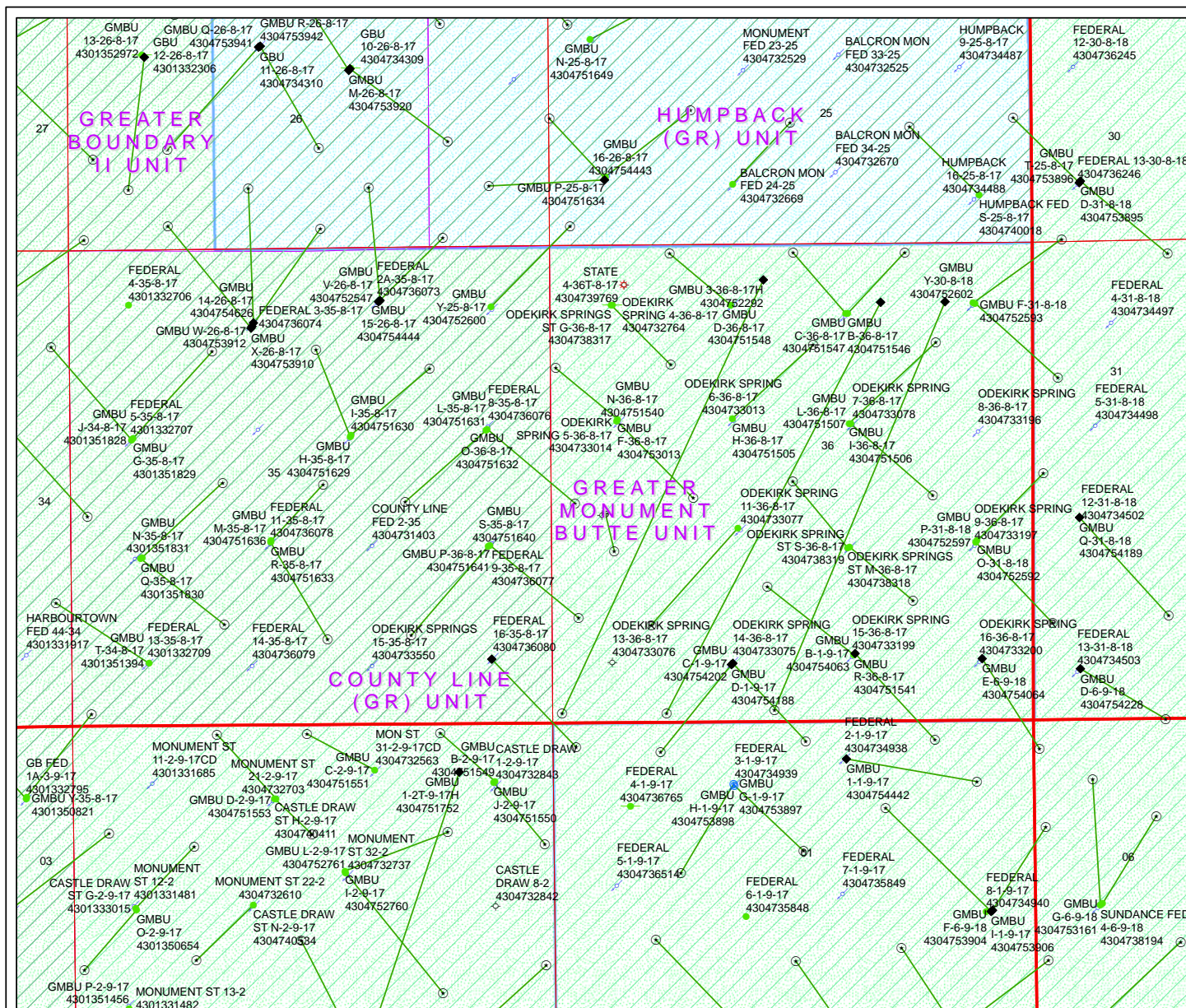
NOT TO SCALE

SURVEYED BY: S.H.	DATE SURVEYED: 05-19-14	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-15-14	V1
SCALE: NONE	REVISED:	

**Tri State** (435) 781-2501  
*Land Surveying, Inc.*  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**RECEIVED:** November 10, 2014



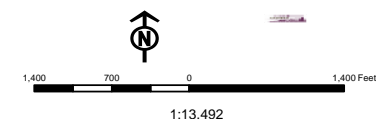
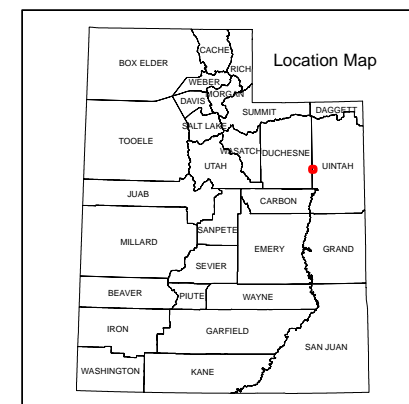
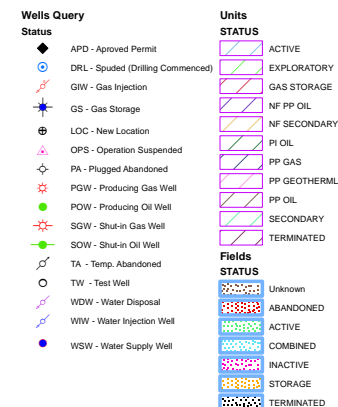


API Number: 4304754926

Well Name: GMBU 12-36-8-17

Township: T08.0S Range: R17.0E Section: 36 Meridian: S

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 11/14/2014  
Map Produced by Diana Mason



NEWFIELD



VIA ELECTRONIC DELIVERY

November 18, 2014

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

**Newfield Exploration Company**

1001 17th Street | Suite 2000  
Denver, Colorado 80202  
PH 303-893-0102 | FAX 303-893-0103

RE: Directional Drilling  
**GMBU 12-36-8-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 36: NWSW (ML-44305)  
2304' FSL 593' FWL

At Target: T8S-R17E Section 36: NWSW (ML-44305)  
1886' FSL 688' FWL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/10/14, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-323-9770 or by email at [ldein@newfield.com](mailto:ldein@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

Levi Dein  
Landman



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
440 West 200 South, Suite 500  
Salt Lake City, UT 84101

**IN REPLY REFER TO:**

**3160**

**(UT-922)**

November 17, 2014

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-53216	GMBU 128-12-9-15	Sec 12 T09S R15E 2039 FSL 0554 FWL
	BHL	Sec 12 T09S R15E 1105 FSL 0683 FWL
43-013-53217	GMBU 125-12-9-15	Sec 12 T09S R15E 1832 FSL 0464 FEL
	BHL	Sec 12 T09S R15E 1132 FSL 0754 FEL
43-013-53218	GMBU 16-22-9-15	Sec 22 T09S R15E 0591 FSL 0891 FEL
	BHL	Sec 22 T09S R15E 0683 FSL 0581 FEL
43-047-54926	GMBU 12-36-8-17	Sec 36 T08S R17E 2304 FSL 0593 FWL
	BHL	Sec 36 T08S R17E 1886 FSL 0688 FWL

This office has no objection to permitting the wells at this time.

Michael Coulthard

Digitally signed by Michael Coulthard  
DN: cn=Michael Coulthard, o=Bureau of Land Management, ou=Division of Minerals,  
email=mcoulthard@blm.gov, c=US  
Date: 2014.11.17 11:25:21 -0700

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

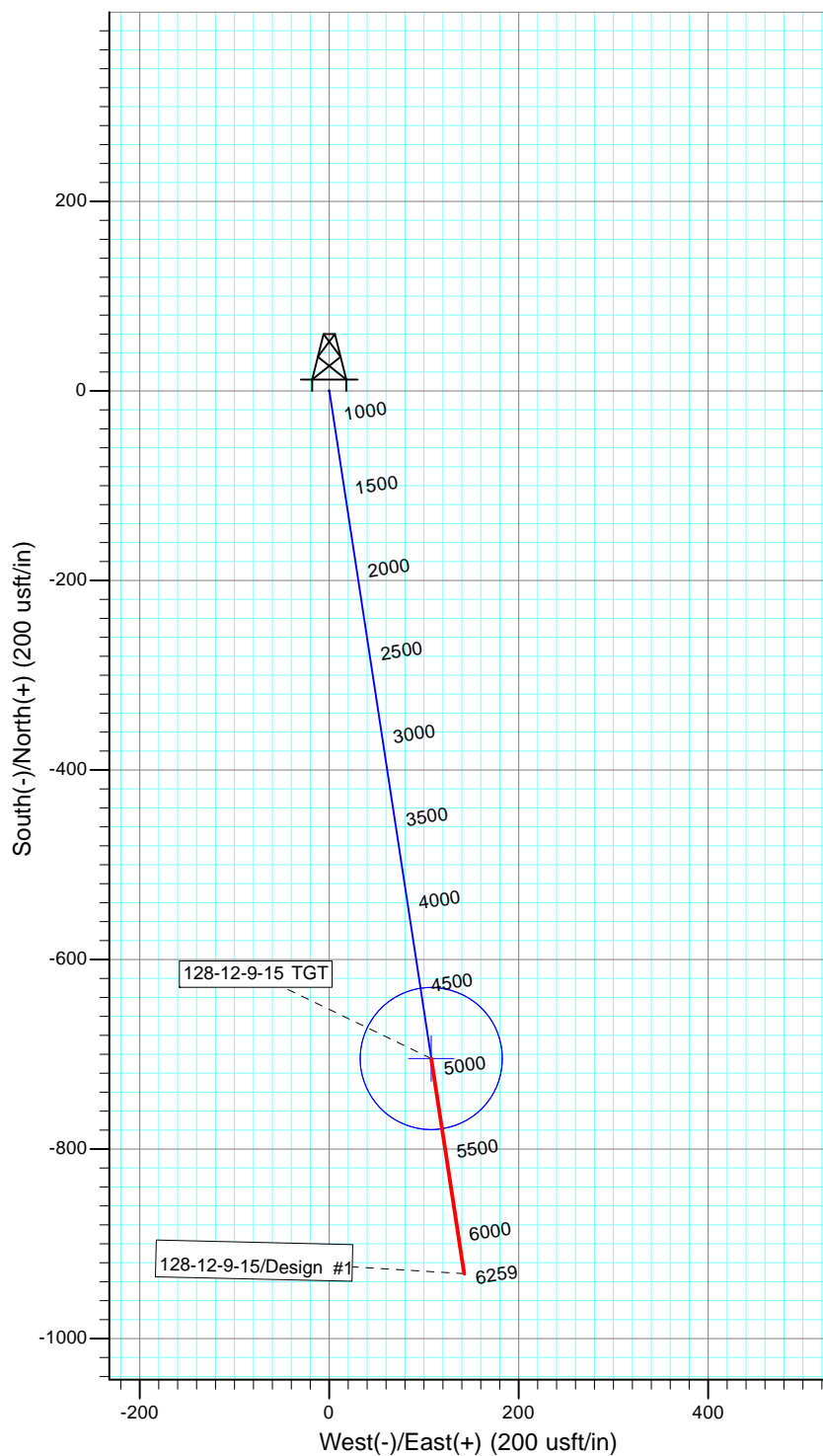
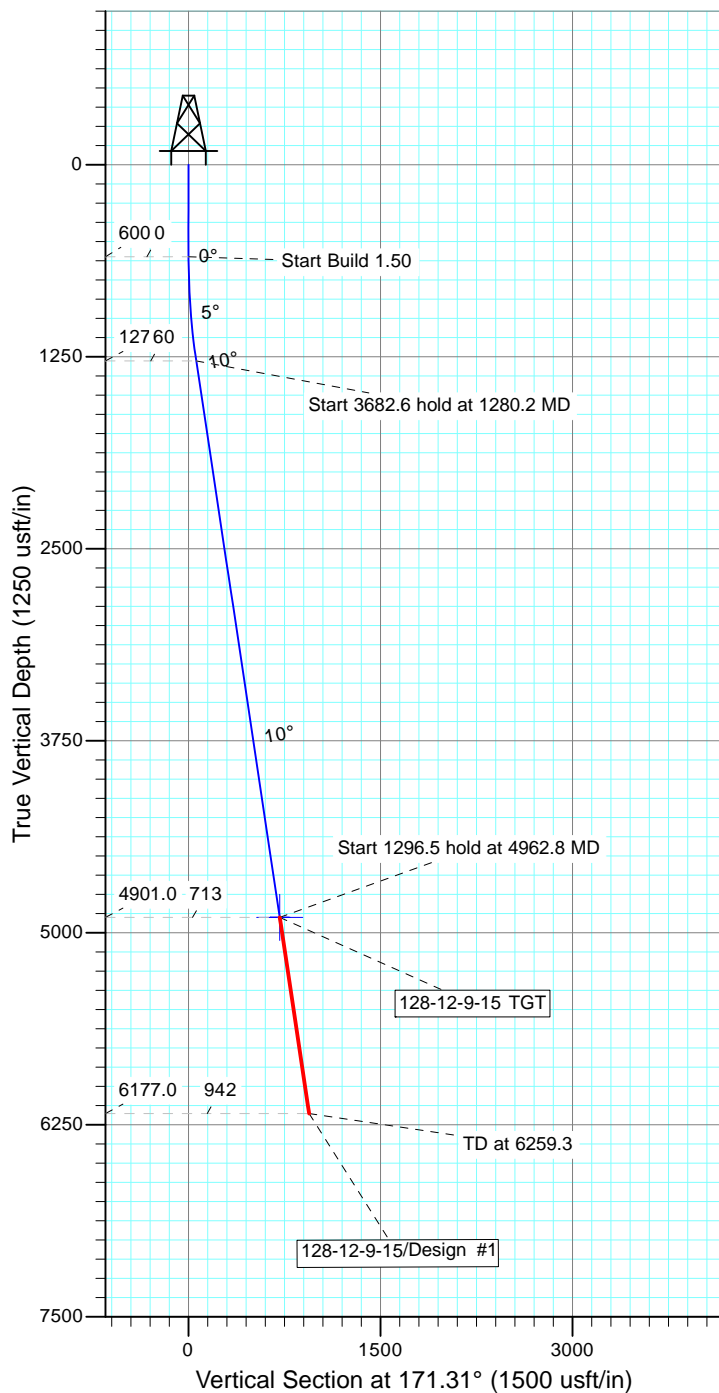
MCoulthard:mc:11-17-14

RECEIVED: November 18, 2014



Project: USGS Myton SW (UT)  
 Site: SECTION 12 T9S, R15E  
 Well: 128-12-9-15  
 Wellbore: Wellbore #1  
 Design: Design #1

**T M**  
 Azimuths to True North  
 Magnetic North: 10.95°  
 Magnetic Field  
 Strength: 51930.7snT  
 Dip Angle: 65.69°  
 Date: 9/2/2014  
 Model: IGRF2010



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
128-12-9-15 TGT	4901.0	-704.5	107.7	Circle (Radius: 75.0)

## SECTION DETAILS

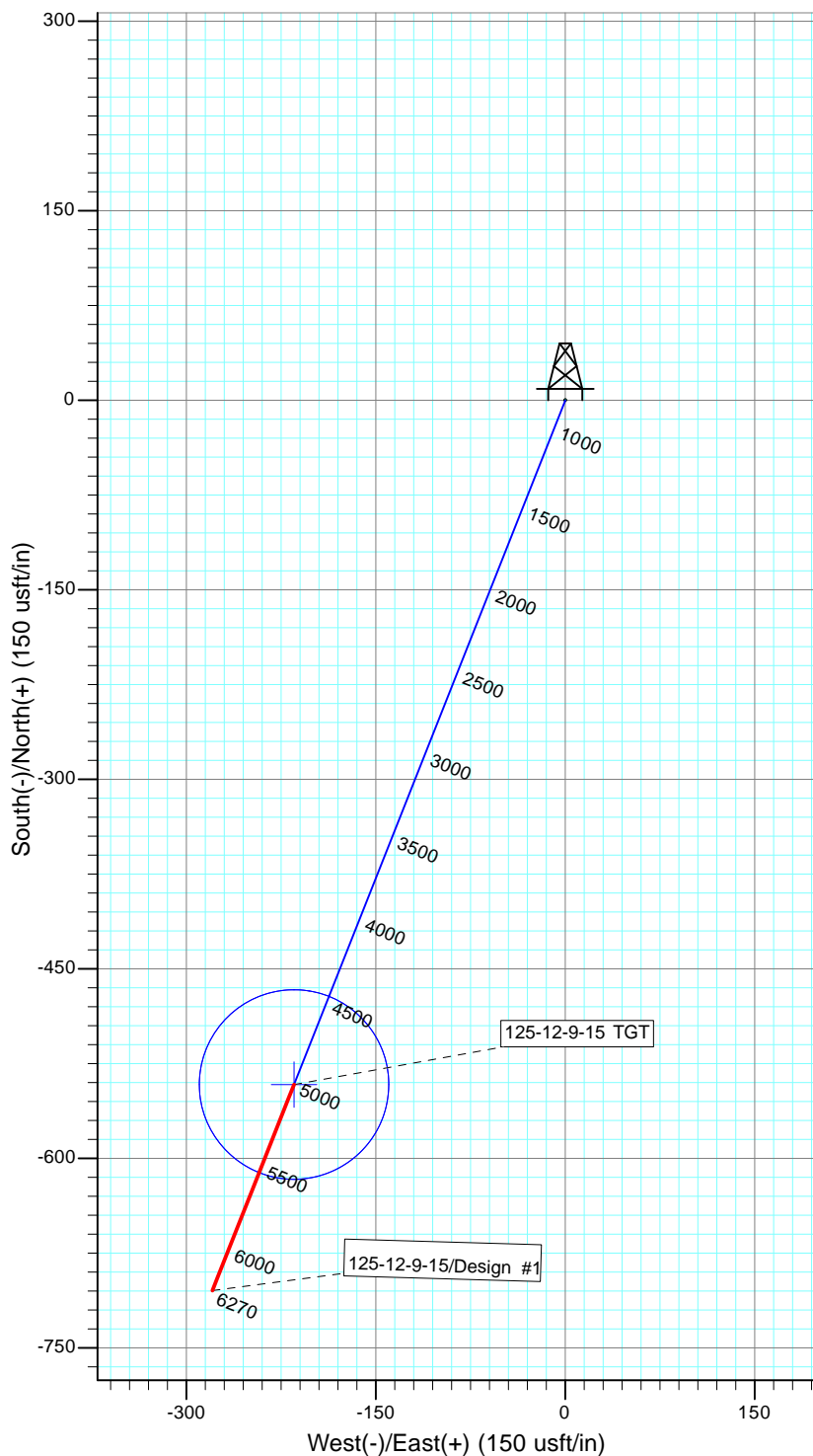
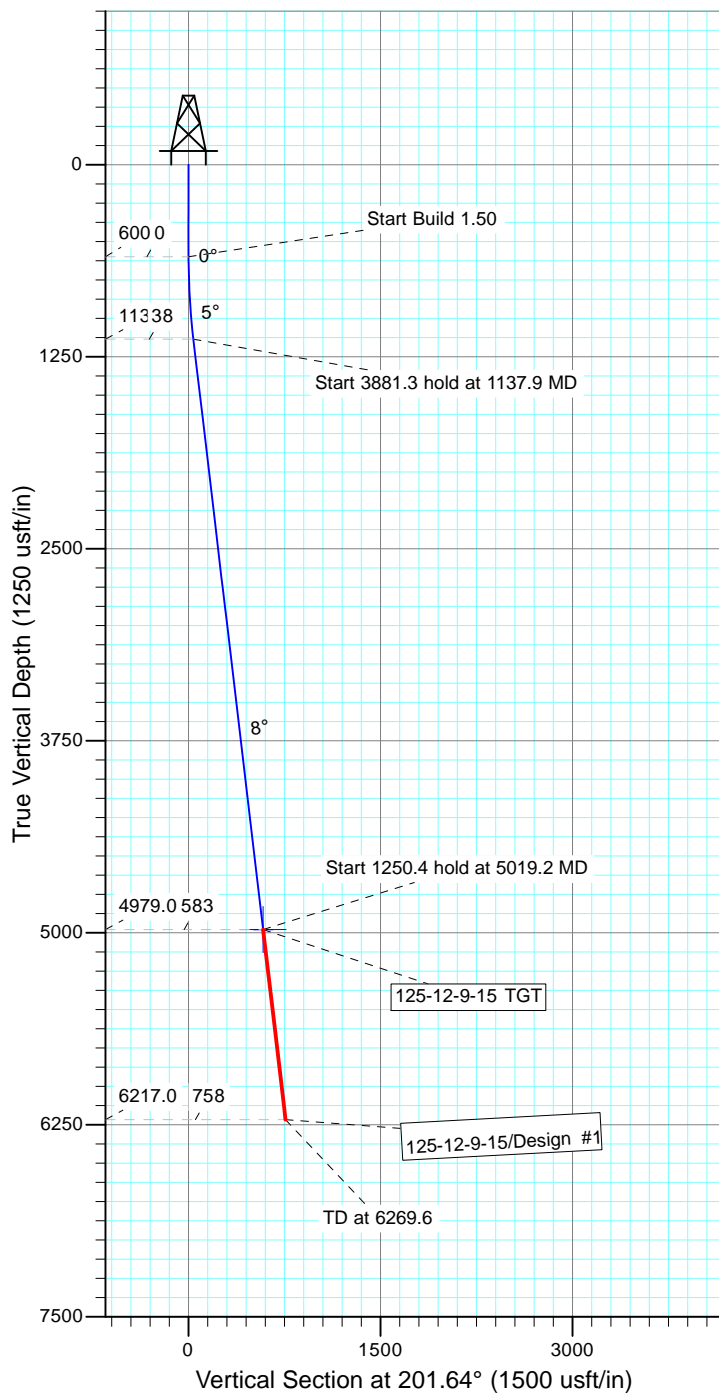
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1280.2	10.20	171.31	1276.6	-59.7	9.1	1.50	171.31	60.4	
4	4962.8	10.20	171.31	4901.0	-704.5	107.7	0.00	0.00	712.7	128-12-9-15 TGT
5	6259.3	10.20	171.31	6177.0	-931.6	142.4	0.00	0.00	942.4	





Project: USGS Myton SW (UT)  
 Site: SECTION 12 T9S, R15E  
 Well: 125-12-9-15  
 Wellbore: Wellbore #1  
 Design: Design #1

**T M**  
 Azimuths to True North  
 Magnetic North: 10.94°  
 Magnetic Field  
 Strength: 51930.5snT  
 Dip Angle: 65.69°  
 Date: 9/9/2014  
 Model: IGRF2010



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
125-12-9-15 TGT	4979.0	-541.5	-214.9	Circle (Radius: 75.0)

## SECTION DETAILS

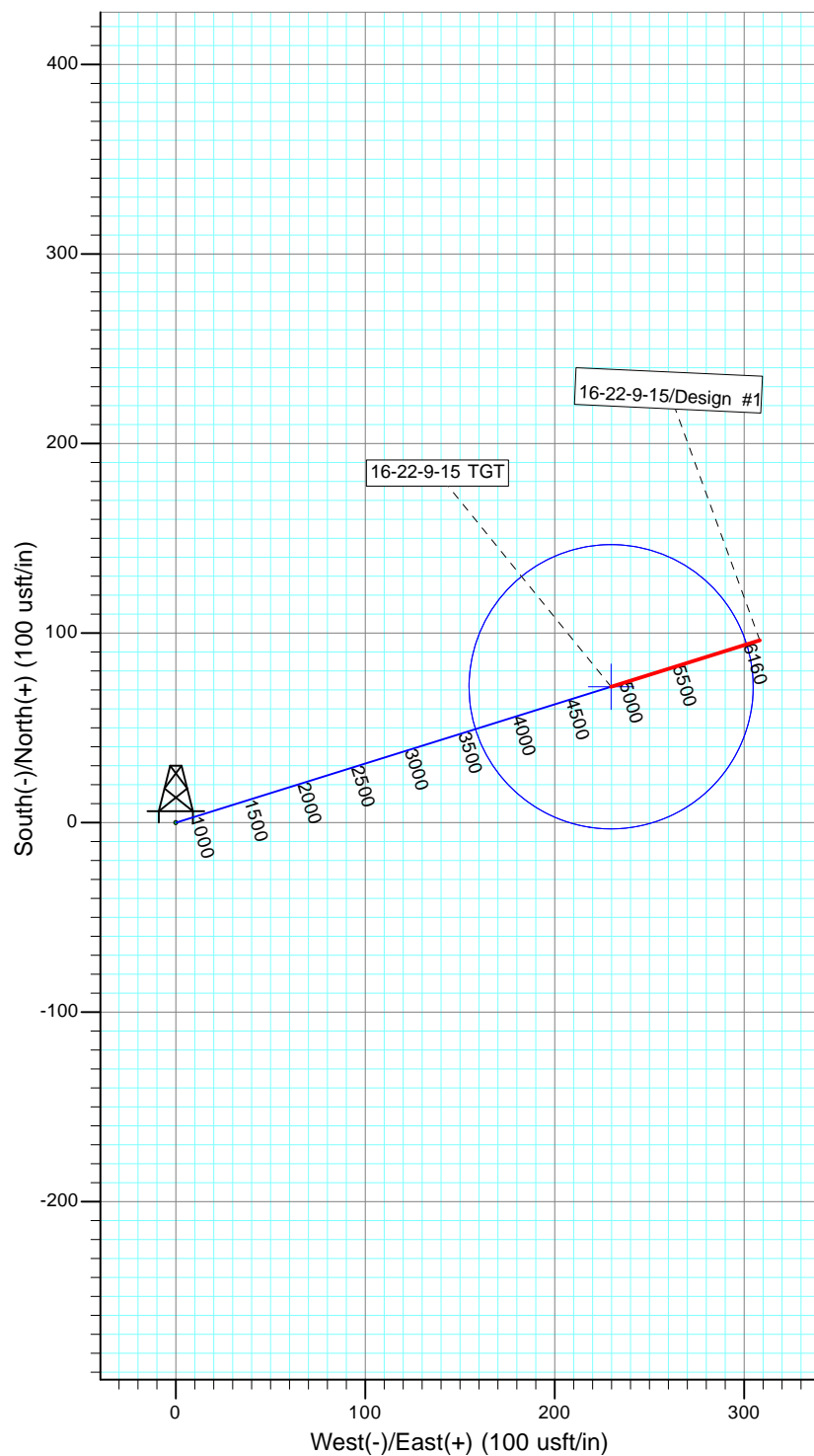
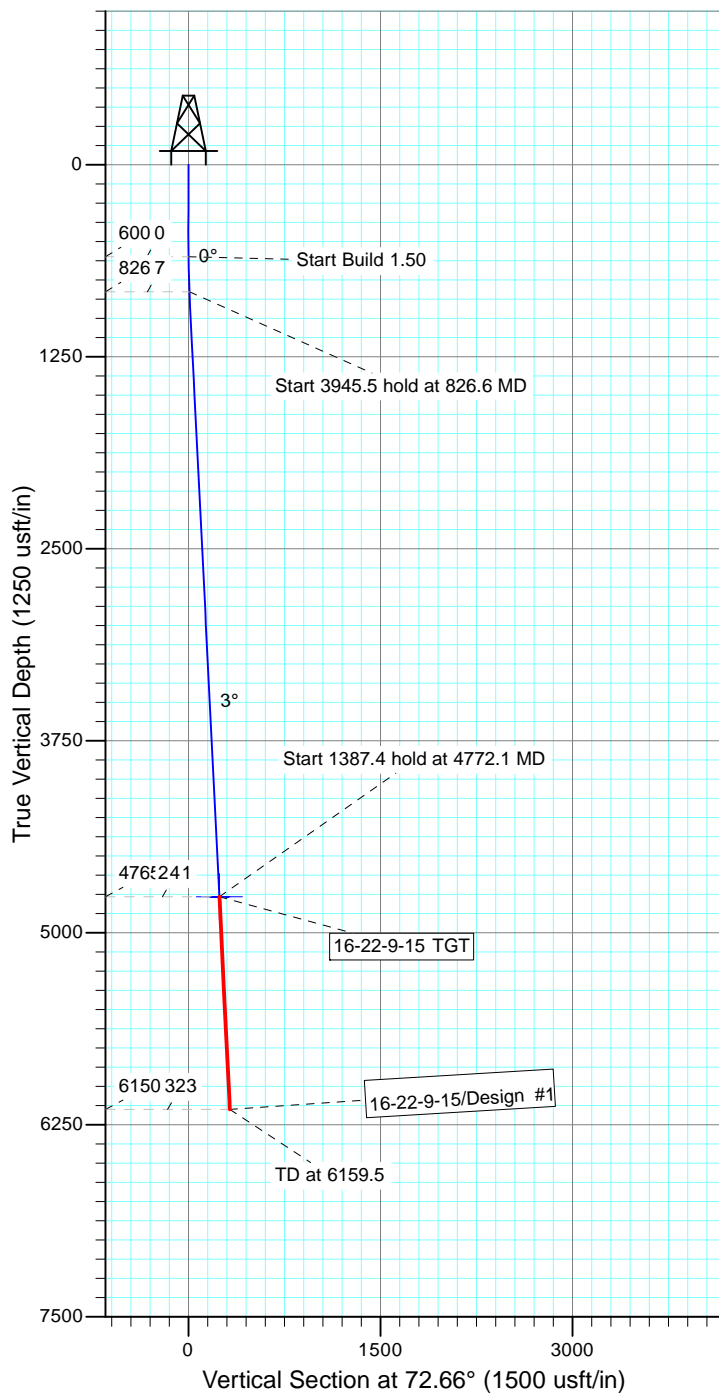
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1137.9	8.07	201.64	1136.2	-35.2	-13.9	1.50	201.64	37.8	
4	5019.2	8.07	201.64	4979.0	-541.5	-214.9	0.00	0.00	582.6	125-12-9-15 TGT
5	6269.6	8.07	201.64	6217.0	-704.7	-279.6	0.00	0.00	758.1	



**NEWFIELD**

Project: USGS Myton SW (UT)  
 Site: SECTION 22 T9S, R15E  
 Well: 16-22-9-15  
 Wellbore: Wellbore #1  
 Design: Design #1

**T M**  
 Azimuths to True North  
 Magnetic North: 10.95°  
 Magnetic Field  
 Strength: 51903.8snT  
 Dip Angle: 65.66°  
 Date: 9/11/2014  
 Model: IGRF2010

**WELLBORE TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Shape
16-22-9-15 TG#765.0	71.7	229.7	Circle (Radius: 75.0)	

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	826.6	3.40	72.66	826.5	2.0	6.4	1.50	72.66	6.7	
4	4772.1	3.40	72.66	4765.0	71.7	229.7	0.00	0.00	240.7	16-22-9-15 TGT
5	6159.5	3.40	72.66	6150.0	96.2	308.2	0.00	0.00	322.9	

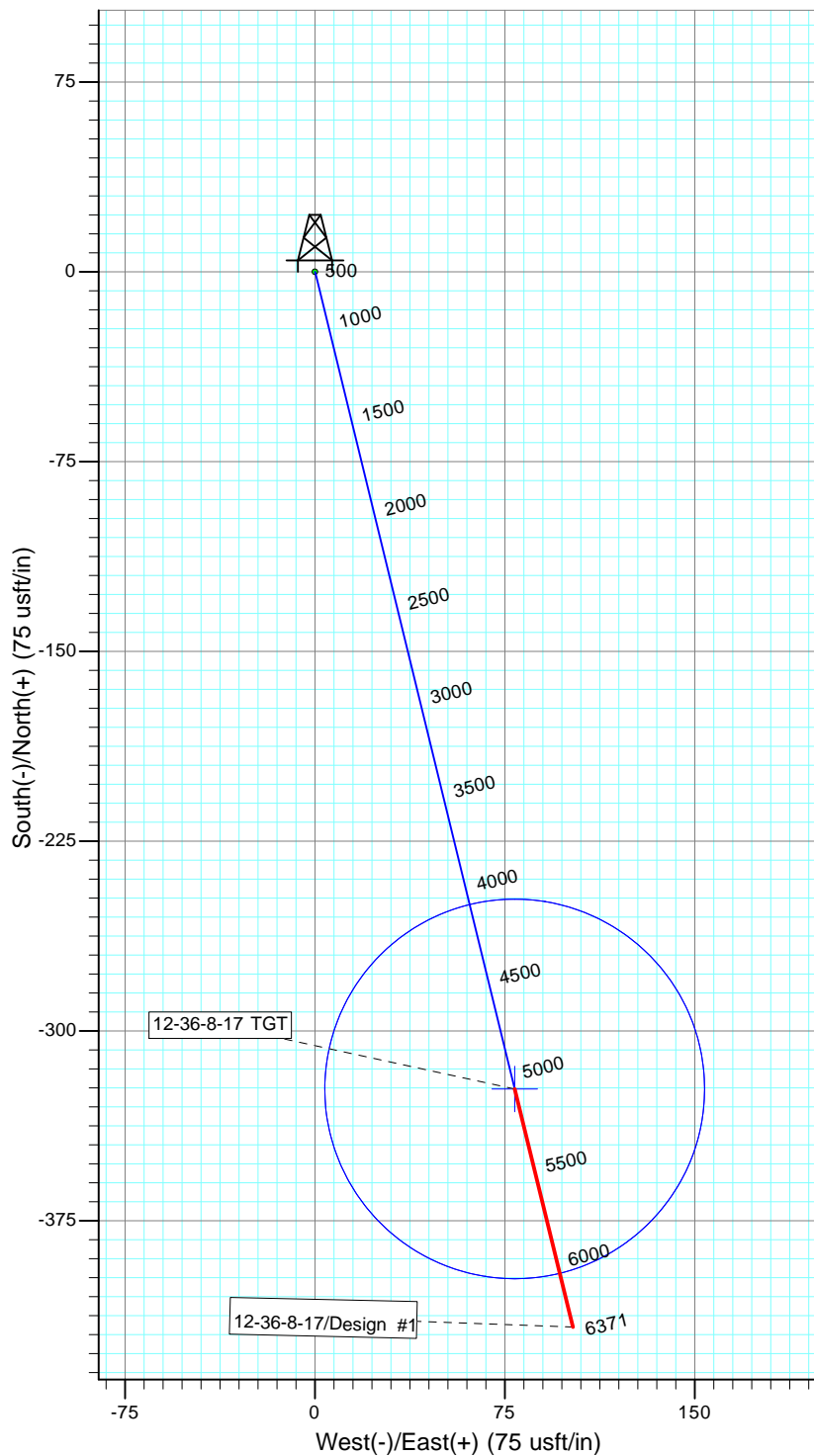
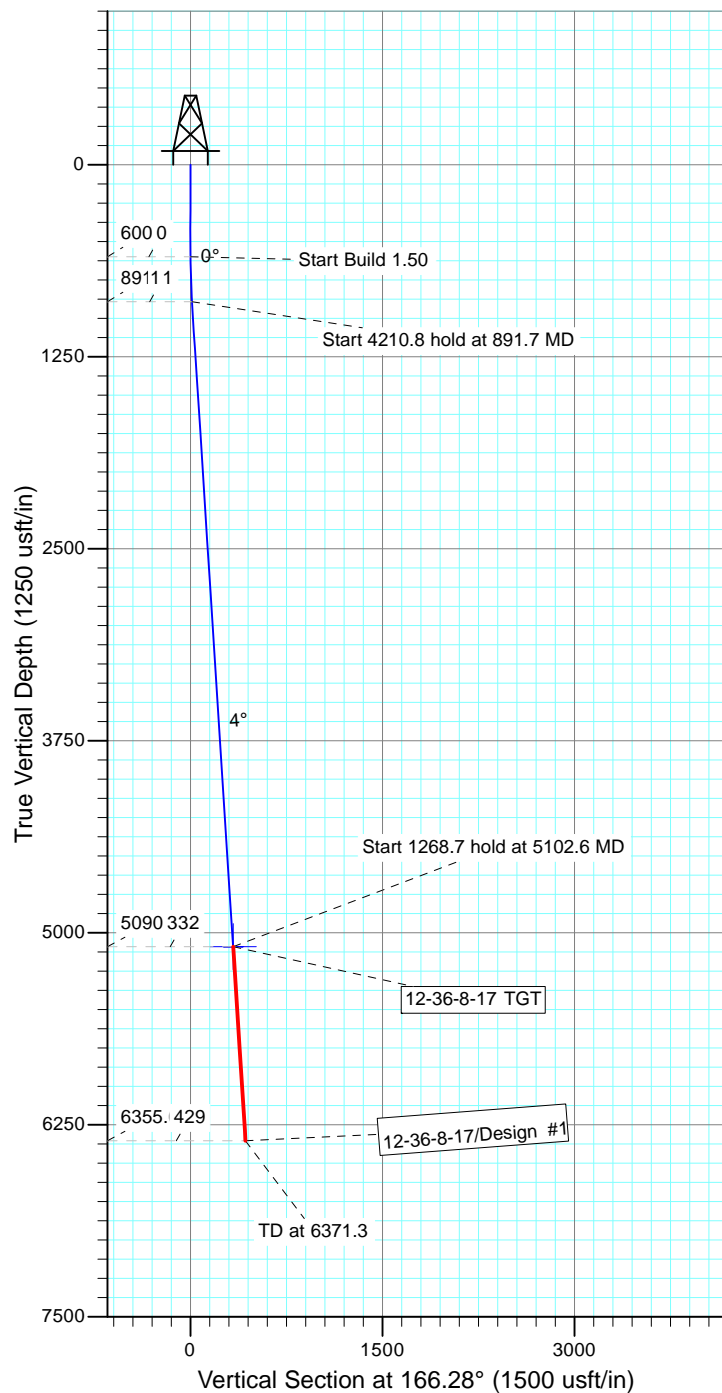






Project: USGS Myton SW (UT)  
 Site: SECTION 36 T8S, R17E  
 Well: 12-36-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1

**T M**  
 Azimuths to True North  
 Magnetic North: 10.86°  
 Magnetic Field  
 Strength: 51983.4snT  
 Dip Angle: 65.76°  
 Date: 9/11/2014  
 Model: IGRF2010



## WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
12-36-8-17 TG5090.0	-322.9	78.8	Circle (Radius: 75.0)	

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	891.7	4.38	166.28	891.5	-10.8	2.6	1.50	166.28	11.1	
4	5102.6	4.38	166.28	5090.0	-322.9	78.8	0.00	0.00	332.4	12-36-8-17 TGT
5	6371.3	4.38	166.28	6355.0	-417.0	101.8	0.00	0.00	429.2	





Diana Mason <dianawhitney@utah.gov>

---

## Newfield Approvals

---

Jeff Conley <jconley@utah.gov>

Tue, Dec 9, 2014 at 9:43 AM

Reply-To: jconley@utah.gov

To: Diana Mason <dianawhitney@utah.gov>, Bradley Hill <bradhill@utah.gov>

Cc: mcrozier@newfield.com

Hello,

The following well has been approved by SITLA including arch and paleo:

[\(4304754926\)](#) GMBU 12-36-8-17

Thanks,

Jeff Conley  
SITLA Resource Specialist  
[jconley@utah.gov](mailto:jconley@utah.gov)  
801-538-5157

Well Name	NEWFIELD PRODUCTION COMPANY GMBU 12-36-8-17 4304754926			
String	SURF	PROD		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	300	6371		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.3		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2740	8.3		

Calculations	SURF String	8.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	129		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	93	YES	air rig system
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO	OK
Required Casing/BOPE Test Pressure=		300	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

Calculations	PROD String	5.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2750		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1985	YES	2M 8
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1348	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1414	NO	Reasonable
Required Casing/BOPE Test Pressure=		2000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

**Newfield Production Company**  
**GMBU 12-36-8-17**  
**43047549260000**

Formation Depth (MD)  
 UINTA 0

APD  
 surf

8.625 " Casing

300' MD

300' TVD

61' TOC

300' Tail

15 % Washout

12.25 " Hole

X

✓

BMSW

300

GRNRVR

1597

✓ \* Strip cut

APD

surf  
 4371'

5.5 " Casing

6371' MD

6355' TVD

838' TOC

4635' Tail

12 % Washout

7.875 " Hole

✓

WSTCH

6332

2304' FSL 0593' FWL (SHL)

Proposed 1886' FSL 0688' FWL (BHL)

Survey → 1887' FSL 695' FWL ✓

OK



**Newfield Production Company**  
**GMBU 12-36-8-17**  
**43047549260000**

1.125											1		1.8										
MASP	93	Collapse Strength (psi)	1370	Collapse Load (psi)	129	Collapse	10.59	Burst DF	2950	Burst Strength (psi)	300	Burst Load (psi)	9.83	Tension Strength (kips)	244	Tension DF	38.71	Neutral Point (ft)	262	Tension Air (kips)	7.2	Tension Buoyed (kips)	6.3
MW (ppg)	8.3	Internal Grad. (psi)	0.12	Backup Mud (ppg)		Internal Mud (ppg)		Max Shoe Pressure (psi)*	1408	CSG Wt (lbs/ft)	24.0	CSG Grade	J-55	CSG Collar	STC	Cement Lead (sx)	138	Lead Yield	1.17	Cement Tail (sx)		Tail Yield	
MASP	1342	Collapse Strength (psi)	4040	Collapse Load (psi)	2740	Collapse	1.47	Burst DF	4810	Burst Strength (psi)	2740	Burst Load (psi)	1.76	Tension Strength (kips)	217	Tension DF	2.52	Neutral Point (ft)	5548	Tension Air (kips)	98.5	Tension Buoyed (kips)	86.1
MW (ppg)	8.3	Internal Grad. (psi)	0.22	Backup Mud (ppg)		Internal Mud (ppg)		Max Shoe Pressure (psi)*	2740	CSG Wt (lbs/ft)	15.5	CSG Grade	J-55	CSG Collar	LTC	Cement Lead (sx)	302	Lead Yield	3.26	Cement Tail (sx)	363	Tail Yield	1.24

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU 12-36-8-17  
**API Number** 43047549260000      **APD No** 10617      **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** NWSW      **Sec** 36      **T w** 8.0S      **Rng** 17.0E      2304 FSL 593 FWL  
**GPS Coord (UTM)** 588487 4436433      **Surface Owner**

### **Participants**

Mandie Crozier, Joe Pippy, Ryan Goodliffe (Newfield), Jeff Conley (SITLA), Richard Powell (DOGM)

### **Regional/Local Setting & Topography**

This proposed well site is in the Greater Monument Buttes Field and about 9.5 miles southeast of Myton, Ut. This location was previously the home of the Castle Peak 1 well which was plugged and abandoned. This location is on a flat bench.

### **Surface Use Plan**

**Current Surface Use**  
Wildlife Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.03	<b>Width</b> 200 <b>Length</b> 240	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Antelope habitat

Rabbit brush, snake broom weed

#### **Soil Type and Characteristics**

Sandy clay soil with lots of rock pieces on surface

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required?** Y

**Erosion Sedimentation Control Required? N****Paleo Survey Run? Y    Paleo Potential Observed? N    Cultural Survey Run? Y    Cultural Resources? N****Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>		20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	TDS>10000	15
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	50    1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 70ft x 40ft x 8ft. Newfield representative Joe Pippy stated that a 16 mil reserve pit liner and felt subliner are standard equipment on all Newfield reserve pits. This liner program appears adequate for this location.

**Closed Loop Mud Required? N    Liner Required? Y    Liner Thickness 16    Pit Underlayment Required? Y****Other Observations / Comments**

Richard Powell  
**Evaluator**

11/25/2014  
**Date / Time**

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
10617	43047549260000	LOCKED	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	GMBU 12-36-8-17		Unit	GMBU (GRRV)	
Field	MONUMENT BUTTE		Type of Work	DRILL	
Location	NWSW 36 8S 17E S 2304 FSL 593 FWL GPS Coord (UTM) 588486E 4436432N				

#### Geologic Statement of Basis

Newfield proposes to set 300 feet of surface casing at this location. The base of the moderately saline water at this location is estimated to be at approximately 300 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement program should adequately protect any useable ground water.

Brad Hill  
APD Evaluator

12/15/2014  
Date / Time

#### Surface Statement of Basis

This proposed oil well location is on state surface with state minerals. It is the site of a plugged and abandoned well (Castle Peak 1). The site was not well reclaimed after the plugging and there is a lot of steel debris on location from the old well as well as the old concrete cellar which was not removed. The old concrete cellar should be broken up and disposed of along with all other debris. SITLA representative Jeff Conley was in attendance for this onsite and stated that he had no concerns and was satisfied with the placement of this well. A reserve pit is proposed in a cut and stable location and according to Newfield representative Joe Pippy a 16 mil liner and felt subliner will be used. This liner program appears adequate for the site. This appears to be a good site for placement of this well.

Richard Powell  
Onsite Evaluator

11/25/2014  
Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/10/2014

API NO. ASSIGNED: 43047549260000

WELL NAME: GMBU 12-36-8-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWSW 36 080S 170E

Permit Tech Review: ☒

SURFACE: 2304 FSL 0593 FWL

Engineering Review: ☒

BOTTOM: 1886 FSL 0688 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.07351

LONGITUDE: -109.96227

UTM SURF EASTINGS: 588486.00

NORTHINGS: 4436432.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-44305

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE - B001834☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 437478☐ RDCC Review:☐ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit: GMBU (GRRV)

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 213-11

Effective Date: 11/30/2009

Siting: Suspends General Siting

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
12 - Cement Volume (3) - daynedoucet  
15 - Directional - dmason  
25 - Surface Casing - daynedoucet  
27 - Other - bhill

RECEIVED: February 24, 2015





GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU 12-36-8-17

**API Well Number:** 43047549260000

**Lease Number:** ML-44305

**Surface Owner:** STATE

**Approval Date:** 2/24/2015

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Surface casing shall be cemented to the surface.

Cement volume for the 5-1/2" production string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to surface and tail cement to 4371' MD as indicated in the submitted drilling plan.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

**Approved By:**

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-44305			
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)			
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> GMBU 12-36-8-17			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2304 FSL 0593 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 36 Township: 08.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43047549260000			
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>2/24/2016</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>          OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Newfield proposes to extend the Application for Permit to Drill this well.					
<div style="color: red; font-weight: bold;">             Approved by the              Utah Division of              Oil, Gas and Mining           </div> <div style="color: red; font-weight: bold;">             Date: _____              By:  </div>					
<b>NAME (PLEASE PRINT)</b> Mandie Crozier		<b>PHONE NUMBER</b> 435 646-4825			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Tech			
<b>DATE</b> 2/2/2016					



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047549260000**

API: 43047549260000

Well Name: GMBU 12-36-8-17

Location: 2304 FSL 0593 FWL QTR NWSW SEC 36 TWNP 080S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 2/24/2015

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Mandie Crozier

Date: 2/2/2016

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-44305
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<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
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<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

Newfield proposes to extend the Application for Permit to Drill this well.

**Approved by the**  
**February 09, 2017**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:**

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/6/2017	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

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**Location:** 2304 FSL 0593 FWL QTR NWSW SEC 36 TWNP 080S RNG 170E MER S

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**Signature:** Mandie Crozier

**Date:** 2/6/2017

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY